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PERSONAL

Mr. Hiram Phillips, M. Am. Soc. C. E., of St. Louis, Mo., has been employed to design a sewerage system for Brookfield, Mo.

Mr. Garwood Ferris has been appointed Chief Supervising Engineer of the construction of the new water-works system of Jersey City, N. J.

Mr. Charles R. Defreest, formerly Secretary to the Railroad Commission of New York State, has been elected Secretary of the Union Steel & Chain Co.

Mr. W. A. Green, who is in charge of the electric light plant at Union, S. C., has been appointed Superintendent of the West Tampa (Fla.) Water-Works.

Mr. V. K. Nash, civil engineer of Providence, R. I., has been engaged by the Trustees of Waterbury, Vt., to prepare estimates for the proposed sewerage system for that village.

Mr. Charles H. Kluegel, Chief Engineer of the Oahu Ry. & Land Co., has been appointed Chief Engineer of the newly incorporated Hilo R. R. Co., Ltd., of Hilo, Hawaiian Islands.

Mr. Frank F. Rogers, who has been City Engineer of Port Huron, Mich., for the last eight years, has retired from office and will open an office for private practice in that city.

Mr. C. W. Bradley, formerly General Superintendent of the West Shore R. R., has been appointed Manager of the Western New York Car Service Association, to succeed Mr. W. W. Halsey, resigned.

Mr. W. M. Hughes, M. Am. Soc. C. E., who has been appointed Engineer of Bridges and Bridge Construction on the Chicago Drainage Canal, still retains his office for private business at 1511 Great Northern Building, Chicago.

Mr. C. E. Hicks, civil and mechanical engineer, of Lansingburg, N. Y., has recently been appointed Engineer of the Village of Mechanicsville, N. Y.; Engineer of the Paving Commission of Waterford, N. Y., and Engineer of the Board of Water Commissioners of Lansingburg.

The personnel of the new Isthmian Canal Commission has not been formally announced, but Washington dispatches of apparent reliability state that it will probably be made up of the following: Admiral J. G. Walker, U. S. N., retired; Prof. L. M. Haupt; Gen. Peter C. Hains (the members of the present Nicaragua Canal Commission), and Messrs. Alfred Noble, Virgil G. Bogue and Geo. S. Morison and Major Thos. W. Symons, U. S. Engineers.

OBITUARY.

Mr. Joseph Taney, a retired civil engineer, of Bangor, Me., died on May 24.

Mr. James Brophy, a brick manufacturer, of Grassy Point, N. Y., was accidentally killed on May 23. He was 40 years of age.

Mr. Philander J. Carleton, of Rockport, Me., senior member of the shipbuilding firm of Carleton, Norwood & Co., died in Portland, Me., on May 22.

Mr. William O. Hughart, for many years President of the Grand Rapids & Indiana R. R., died at his home in Grand Rapids, Mich., on May 30, aged 74 years.

Mr. Charles A. Putnam, City Engineer of Salem, Mass., and Engineer of Essex county, Mass., committed suicide at his office in Salem, on May 25. He was 70 years of age.

Col. Fleming Gardner, Chief Engineer of the Atlantic Coast Line, died at Denmark, S. C., on May 27, where he was superintending the survey and construction of a branch line. He was about 83 years of age, and was a veteran of the Mexican and Civil Wars.

Mr. Joseph Fleming, a well-known contractor, died at his home in Greece, N. Y., on May 17, aged 87 years. He was born in Ireland and came to this country in 1837. He had charge of the stone work on the Welland Canal in Canada, and in 1846 erected one of the towers of the Suspension Bridge at Niagara Falls.

Col. E. W. Cole, of Nashville, Tenn., one of the leading men in the coal, iron and railway industries of the South, died suddenly in New York on May 25, aged 65. Prior to the Civil War, Colonel Cole was connected with the Nashville, Chattanooga & St. Louis R. R. He started as a bookkeeper and rose to the Presidency of the company. He was also at one time President of the East Tennessee, Virginia & Georgia R. R., now part of the Southern Ry. system. He was also interested in iron manufacture, and operated three blast furnaces situated at Sheffield, Ala.

ENGINEERING SOCIETIES.

COMING TECHNICAL MEETINGS.

NEW YORK ELECTRICAL EXHIBITION.
May 8-June 3. Madison Square Garden, New York city. Marcus Nathan, Manager, Madison Square Garden, New York city.

TECHNICAL SOCIETY OF THE PACIFIC COAST.
June 2. Secy., O. Von Geldern, 819 Market St., San Francisco, Cal.

BROOKLYN INSTITUTE OF ARTS AND SCIENCES.
June 2. Secy., Henry I. Weed, Brooklyn Institute of Arts and Sciences, Brooklyn, N. Y.

THE ENGINEERS' CLUB OF PHILADELPHIA.
June 4. Secy., L. F. Rondinella, 1122 Girard St., Philadelphia, Pa.

ENGINEERING SOCIETY OF WESTERN NEW YORK.
June 5. Secy., H. J. March, Library Bldg., Buffalo, N. Y.

FRANKLIN INSTITUTE.
June 6. "The Systematic Application of the Microscope to the Detection of Food Adulterations." Discussion. Secy., Wm. H. Wahl, 15 South 7th St., Philadelphia, Pa.

ENGINEERS' CLUB OF TORONTO.
June 6. Secy., Willis Chipman, Toronto, Ont.

AMERICAN SOCIETY OF CIVIL ENGINEERS.
June 7. "On the Theory of Concrete," George W. Rafter. Secy., C. W. Hunt, 220 W. 57th St., New York city.

WESTERN SOCIETY OF ENGINEERS.
June 7. Secy., N. L. Litten, Monadnock Block, Chicago, Ill.

FOUNDRYMEN'S ASSOCIATION (Philadelphia).
June 7. Secy., Howard Evans, Pier 45, N. Delaware Ave., Philadelphia, Pa.

ENGINEERING ASSOCIATION OF THE SOUTH.
June 8. Secy., H. M. Jones, 1000 Broad St., Nashville, Tenn.

ENGINEERS' CLUB OF ST. LOUIS.
June 9. Secy., E. R. Fish, 2401 N. Spring Ave., St. Louis, Mo.

WISCONSIN STATE CHEMICAL ASSOCIATION.
June 9. Secy., I. Ladoff, 154 Knapp St., Milwaukee, Wis.

ST. LOUIS RAILWAY CLUB.
June 9. Secy., H. H. Roberts, 511 Commercial Bldg., St. Louis, Mo.

MONTANA SOCIETY OF ENGINEERS.
June 10. Butte, Mont. Secy., A. S. Hovey, National Bank Bldg., Helena, Mont.

ENGINEERS' CLUB OF KANSAS CITY.
June 12. Secy., F. W. Tuttle, Baird Bldg., Kansas City, Mo.

THE LOUISIANA ENGINEERING SOCIETY.
June 12. Secy., J. F. Coleman, 712 Union St., New Orleans, La.

DENVER SOCIETY OF CIVIL ENGINEERS.
June 12. Secy., W. B. Lawson, 36 Jacobson Bldg., Denver, Colo.

AMERICAN INSTITUTE OF ARCHITECTS (New York Chapter).
June 14. Secy., Chas. I. Berg, 10 West 23d St., New York city.

THE WESTERN GAS ASSOCIATION.
June 14-16. Annual meeting, Milwaukee, Wis. Secy., Jas. W. Dunbar, New Albany, Ind.

AMERICAN RAILWAY MASTER MECHANICS' ASSOCIATION and the MASTER CAR BUILDERS' ASSOCIATION.
June 14-23. Annual meeting, Old Point Comfort, Va. Secy., Jno. W. Cloud, 774 Rookery, Chicago, Ill.

ENGINEERS' CLUB OF CINCINNATI.
June 15. Secy., J. F. Wilson, P. O. Box 333, Cincinnati, O.

NEW YORK RAILROAD CLUB.
June 15. Secy., W. W. Wheatley, 168 Montague St., Brooklyn, N. Y.

ROCHESTER ENGINEERING SOCIETY.
June 16. Secy., John F. Skinner, Reynolds Library Bld., Rochester, N. Y.

THE DETROIT ENGINEERING SOCIETY.
June 16. Secy., Henry Goldmark, Wayne Co. Savings Bank Bldg., Detroit, Mich.

ENGINEERS' CLUB OF COLUMBUS.
June 17. Secy., H. M. Gates, 12½ North High St., Columbus, O.

ENGINEERS' CLUB OF MINNEAPOLIS.
June 19. Secy., H. E. Smith, 1620 S. E. 14th St., Minneapolis, Minn.

TECHNICAL CLUB OF OMAHA.
June 19. Secy., J. Harry Lawrie, Omaha, Neb.

ENGINEERS' AND ARCHITECTS' CLUB OF LOUISVILLE.
June 19. Secy., Marshall Morris, 16 Norton Bldg., Louisville, Ky.

ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA
June 20. Secy., R. A. Fessenden, 410 Penn Ave., Pittsburg, Pa.

WESTERN FOUNDRYMEN'S ASSOCIATION.
June 21. Secy., B. M. Gardner, 1522 Monadnock Block, Chicago, Ill.

BOSTON SOCIETY OF CIVIL ENGINEERS.
June 21. Secy., S. E. Tinkham, City Hall, Boston, Mass.

AMERICAN SOCIETY OF CIVIL ENGINEERS.
Annual meeting at Cape May, N. J., June 27-30. Secy., Chas. W. Hunt, New York city.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.
June 26-28. Annual meeting, Boston, Mass. Secy., Ralph W. Pope, 26 Cortlandt St., N. Y. city.

AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION.—At a meeting of the Board of Directors, held in Chicago, on May 12, an outline of committee work was submitted embracing 15 general subjects, viz.: Graduation; ballasting; ties; rail; track; buildings; bridges and trestles; masonry; crossings; fences and cattle guards; signs; signaling and interlocking plants; records, accounts and reports; standard rules, regulations, organization, titles, code and water service; yards and terminals. It is proposed to form a standing committee for each general subject.

T. C. Fritch, Secy., Washington, Md.

THE ASSOCIATED TECHNICAL CLUBS, of Cleveland, O., composed of the Civil Engineers' Club of Cleveland, the Electric Club of Cleveland and the Cleveland Architectural Club, opened their new club rooms on May 29, at 689 The Arcade, Cleveland. These three technical societies will each continue to have a distinct corporate existence with their own individual officers and committees, and holding their independent meetings, but have united to the extent of having common quarters in charge of a single house committee composed of members of all three organizations. Members of any of the three clubs are entitled to the privileges of the meetings of the remaining two. The Cleveland Chemical Society has been invited to join the confederation, and has practically accepted. On June 2 and 3, 1899, the National Convention of Architectural Clubs will be held in the above rooms, and representatives of eleven architectural clubs are expected to be present.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
June 1.	Plans for market, Leeds, England		Feb. 16
June 1.	Electric plant, Princeton, Ore.		Apr. 13
June 1.	Water and sewer bonds, Prescott, Ont.		Apr. 27
June 1.	Water pipe, Michigan City, Ind.		May 11
June 1.	Sewers, Honolulu, H. I.		May 11
June 1.	Electric lighting, Mechanicsville, Ia.		May 18
June 1.	Sedimentation reservoir, Media, Pa. Advertised, Engineering News, May 18.		May 18
June 1.	Steel bridge, Hot Springs, Ark.		May 18
June 1.	Steel bridges (2), Brookings, S. Dak.		May 18
June 1.	Excavation, Bridger, Mont.		May 18
June 1.	Water-works, Tupper Lake, N. Y. Advertised, Engineering News, May 18.		May 18
June 1.	Water-Works, North Braddock, Pa. Advertised, Eng. News, May 18 to 25.		May 18
June 1.	Water pipe and sewers, Brussels, Ont.		May 18
June 1.	Street cleaning, Utica, N. Y.		May 18
June 1.	Electric plant, Wallingford, Conn. Advertised, Engineering News, May 18.		May 18
June 1.	Paving, (90,000 yds.), Elizabeth, N. J.		May 18
June 1.	Asphalt paving, Owosso, Mich. Advertised, Engineering News, May 18.		May 18
June 1.	Bridges (3), Towanda, Pa.		May 18
June 1.	Building, Altoona, Pa.		May 25
June 1.	Sewers, Stevens Point, Wis.		May 25
June 1.	Opera house, Sharon, Pa.		May 25
June 1.	Church building, Newport News, Va.		May 25
June 1.	Asylum buildings, Bartonville, Ill.		May 25
June 1.	Electric plant, Creighton, Neb.		May 25
June 1.	Sewer bonds, Charlottetown, P. E. I.		May 25
June 1.	Repaving, Buffalo, N. Y.		May 25
June 1.	Macadam paving, Paterson, N. J.		May 25
June 1.	Paving, Ann Arbor, Mich. Advertised, Engineering News, May 25.		May 25
June 1.	Collecting garbage, West Springfield, Mass.		May 25
June 1.	Wharf, Philadelphia, Pa.		June 1
June 1.	School building, Gloucester, Mass.		June 1
June 1.	Grading, Oakmont, Pa.		June 1
June 1.	Tunnel, Wilkes-Barre, Pa.		June 1
June 2.	Steel bridge, Wyalusing, Pa.		May 18
June 2.	County road, Bethlehem, Pa.		May 18
June 2.	Paving, Shelby, O. Advertised, Engineering News, May 11.		May 11
June 2.	Paving, Cincinnati, O.		May 11
June 2.	Paving, Troy, N. Y.		May 25
June 2.	Paving, Philadelphia, Pa.		May 25
June 2.	Macadam paving, Passaic, N. J.		May 25
June 2.	Park work, New York, N. Y.		May 25
June 2.	Brick paving, Troy, N. Y.		June 1
June 3.	Removing rock, East River, N. Y. Advertised, Eng. News, May 4 to 25.		May 4
June 3.	Dredging, Keyport, N. J. Advertised, Eng. News, May 4 to 25.		May 4
June 3.	School building, Ellerton, O.		May 18
June 3.	Infirmary building, Little Rock, Ark.		May 18
June 3.	Hospital buildings, Washington, D. C.		May 25
June 3.	Business block, Newport News, Va.		May 25
June 3.	Viaduct, Buffalo, N. Y. Advertised, Engineering News, May 25.		May 25
June 3.	Underground wires, Washington, D. C. Advertised, Engineering News, May 25.		May 25
June 3.	Railway (6 miles), Trenton, N. J.		June 1
June 3.	School building, Lacarne, O.		June 1
June 3.	Dredging, Houston, Minn.		June 1
June 3.	Building, Lynn, Mass.		June 1
June 3.	Paving, Kingston, Tenn.		June 1
June 3.	Paving, Franklin, Pa.		June 1
June 3.	Paving, Kansas City, Mo.		June 1
June 3.	Paving, Crestline, O.		June 1
June 3.	Sewers, East Cleveland, O.		June 1
June 3.	Sewers, Pawtucket, R. I.		June 1
June 4.	Brick sewers, Toledo, O.		May 25
June 5.	Macadamizing, Hasbrouck Heights, N. J. Advertised, Eng. News, May 18 to 25.		May 18
June 5.	Pipe sewer, Hackensack, N. J. Advertised, Eng. News, May 18 to 25.		May 18
June 5.	Market house, San Antonio, Tex.		May 18
June 5.	Street improvements, Bondhill, O.		May 18
June 5.	Macadam roads (15 mls), Crown Point, Ind. Advertised, Engineering News, May 18.		May 18
June 5.	Artesian well, Indianola, Miss.		May 11
June 5.	Street bonds, Shelby, O. Advertised, Engineering News, May 11.		May 11
June 5.	Excavating reservoir, Clinton, Mass. Advertised, Eng. News, Apr. 27 and May 4.		Apr. 27
June 5.	Dormitory building, Phoenix, Ariz.		May 25
June 5.	Bridge, Albuquerque, N. Mex.		May 25
June 5.	Bridge, Corralitos, Cal.		May 25
June 5.	Steel bridge, Paris, Ont.		May 25
June 5.	Steel bridge, Cape May, N. J. Advertised, Eng. News, May 25 and June 1.		May 25
June 5.	Sewers, Albany, N. Y.		May 25
June 5.	School building, Brooklyn, N. Y.		May 25
June 5.	Bridge, Newport, Ky. Advertised, Engineering News, May 25.		May 25
June 5.	Extending pump'g plant, Montgomery, Ala. Advertised, Eng. News, May 25 and June 1.		May 25
June 5.	College building, Pullman, Wash.		May 25
June 5.	Brick paving, Albany, N. Y.		May 25
June 5.	Paving, Muncie, Ind.		May 25
June 5.	Asphalt paving, Paterson, N. J.		May 25
June 5.	Grading, Clinton, Ia.		May 25
June 5.	Steel bridge, Natchez, Miss.		June 1
June 5.	Asphalt paving, Paterson, N. J.		June 1
June 5.	Broken stone, Newark, N. J.		June 1
June 5.	Bridge, Idaho Springs, Colo.		June 1
June 5.	Bridge, Denver, Colo.		June 1
June 5.	Bridge, Clear Lake, S. Dak.		June 1
June 5.	Bridges (7), Frankfort, Ind.		June 1
June 5.	Water-works, Highbridge, N. J.		June 1
June 5.	Public bath, Albany, N. Y.		June 1
June 5.	Court house, Statesville, N. C.		June 1
June 5.	Brick paving, White Plains, N. Y.		June 1
June 5.	Steel bridge, Gallatin, Mo.		June 1

June 5. Sewer, Wilkes-Barre, Pa. ..... June 1
June 5. Asphalt paving, Toronto, Ind. ..... June 1
June 5. Gravel road, Noblesville, Ind. ..... June 1
June 5. Paving, Dayton, O. ..... June 1
June 5. Excavation, Ottumwa, Ia. ..... June 1
June 5. Crushed stone, Manistee, Mich. ..... June 1
June 5. Sewers, New Haven, Conn. ..... June 1
June 5. Sewerage system, Topeka, Kan. ..... June 1
June 5. Sewers, Allegheny, Pa. ..... June 1
June 5. Sewers, New Haven, Conn. ..... June 1
June 6. Hospital buildings, Auburn, Cal. ..... Apr. 27
June 6 Bridges (5), Cumberland, Md. ..... May 11
June 6. Drainage for pond, Clinton, Mass. ..... May 18
Advertised, Eng. News, May 18 to 25.
June 6. Heating plant, Devil's Lake, N. Dak. ..... May 18
June 6. Steel bridge, Humboldt, Ia. ..... May 18
June 6. Sewer work, St. Louis, Mo. ..... May 25
June 6. Hospital plans, Auburn, Cal. ..... May 25
June 6. Railway (21 miles), Trenton, Ont. ..... May 25
Advertised, Eng. News, May 25 and June 1.
June 6. Heating plant, Corvallis, Ore. ..... May 25
June 6. Bridge, Gibson, Ga. ..... May 25
June 6. Pipe sewers, Oberlin, O. ..... May 25
June 6. Sewers, etc., Glencoe, Ill. ..... May 25
Advertised, Engineering News, May 25.
June 6. Water pipe and castings, Albany, N. Y. ..... May 25
June 6. Water bonds, Rocky Mount, N. C. ..... May 25
June 6. Lowering water mains Glencoe, Ill. ..... May 25
Advertised, Engineering News, May 25.
June 6. Water-works, Tyler, Minn. ..... May 25
June 6. Macadam paving, Mount Vernon, N. Y. ..... May 25
June 6. Paving bonds, New Rochelle, N. Y. ..... May 25
June 6. Repairing asphalt pvmt, Terre Haute, Ind. May 25
June 6. Bridges (21), Oregon, Mo. ..... June 1
June 6. Iron Bridges (2), Holton, Kan. ..... June 1
June 6. Steel bridge, Dakotah, Ia. ..... June 1
June 6. Jail building, Richmond, Va. ..... June 1
June 6. School building, Oshkosh, Wis. ..... June 1
June 6. School building, Gowanda, N. Y. ..... June 1
June 6. Building, Birmingham, Ala. ..... June 1
June 6. Macadamizing, Passaic, N. J. ..... June 1
June 6. Sewer, Wilkes-Barre, Pa. ..... June 1
June 6. Sewer, Hillsboro, N. Dak. ..... June 1
June 6. Sewers, Niagara Falls, N. Y. ..... June 1
June 6. Generating sets, Washington, D. C. ..... June 1
June 6. Brick paving, Coldwater, Mich. ..... June 1
June 6. Sewers, Waterbury, Conn. ..... June 1
June 7. U. S. building, Detroit, Mich. ..... May 11
Advertised, Eng. News, May 11 and 18.
June 7. Electric plant, London, England. ..... May 4
June 7. Maps and surveys, Mount Gilead, O. ..... May 25
June 7. Bridge, Salem, Ore. ..... May 25
June 7. Bridge, Painesville, O. ..... May 25
June 7. Paving, Buffalo, N. Y. ..... May 25
June 7. Macadam paving, Pittsburg, Pa. ..... May 25
June 7. Sewers, Chicago, Ill. ..... June 1
June 7. Boilers (6), etc., Chicago, Ill. ..... June 1
June 7. Bridge, Medford, Ore. ..... June 1
June 7. Water-works, Glouster, O. ..... June 1
June 7. Almshouse, Sparta, Wis. ..... June 1
June 7. Paving, Buffalo, N. Y. ..... June 1
June 7. Water filters, Philadelphia, Pa. ..... June 1
June 7. Paving, Red Bluff, Cal. ..... June 1
June 7. Macadam roads, Monticello, Ind. ..... June 1
June 7. Sewers, Pottsville, Pa. ..... June 1
June 8. Dredging, New Bedford, Mass. ..... May 11
Advertised, Eng. News, May 11 to June 1.
June 8. Dredging, Rancocas River, N. J. ..... May 11
June 8. Dredging, Alloway Creek, N. J. ..... May 11
June 8. Dredging, New Haven, Conn. ..... May 11
Advertised, Eng. News, May 11 to June 1.
June 8. Removal of wreck, Alloway Creek, N. J. ..... May 11
June 8. Bridge, Plymouth, Ind. ..... May 18
June 8. Bridge, Petaluma, Cal. ..... May 25
June 8. Brick paving, Scottdale, Pa. ..... May 25
Advertised, Eng. News, May 25 and June 1.
June 8. Sewerage system, New Brighton, Pa. ..... May 25
Advertised, Eng. News, May 25 and June 1.
June 8. County roads, Rockville, Ind. ..... May 25
June 8. Water-works, etc., Northbend, Neb. ..... June 1
June 8. Church building, Dover, N. J. ..... June 1
June 8. Buildings (2), Granada, Minn. ..... June 1
June 8. Township hall, Kent City, Mich. ..... June 1
June 8. Water power, Quebec, Que. ..... June 1
June 8. Portland cement, Portland, Me. ..... June 1
Advertised, Engineering News, June 1.
June 8. Paving, Indianapolis, Ind. ..... June 1
June 9. Boom and raft work, New Orleans, La. ..... May 18
June 9. Dredging, Gulfport, Miss. ..... May 18
Advertised, Eng. News, May 18 to June 8.
June 9. Reservoir work, Clinton, Mass. ..... May 18
Advertised, Eng. News, May 18 to 25.
June 9. Water-tower, Murphysboro, Ill. ..... May 18
Advertised, Engineering News, May 18.
June 9. Piers, Holland, Mich. ..... May 11
Advertised, Eng. News, May 11 to June 1.
June 9. Dredging, Bridgeport Conn. ..... May 11
Advertised, Eng. News, May 11 to June 1.
June 9. Macadam paving, Georgetown, O. ..... May 25
June 9. Dredging, Cleveland, O. ..... May 25
Advertised, Eng. News, May 25 and June 1.
June 9. Gas plant site, Buffalo, N. Y. ..... June 1
June 9. Removing surface soil, Clinton, Mass. ..... June 1
Advertised, Engineering News, June 1.
June 9. Broken stone, Passaic, N. J. ..... June 1
June 9. Electric light plant, Princeton, Minn. ..... June 1
June 9. Water-works, Princeton, Minn. ..... June 1
June 9. Gravel roads, Anderson, Ind. ..... June 1
June 10. Boiler house, Bremerton, Wash. ..... May 4
June 10. Timber dry-dock, Mare Island, Cal. ..... Apr. 13
June 10. Government piers, Grand Haven, Mich. ..... May 18
Advertised, Eng. News, May 18 to June 8.
June 10. Steam light vessel, Washington, D. C. ..... May 18
June 10. Town hall, Lafayette, O. ..... May 18
June 10. Army buildings, Fortress Monroe, Va. ..... May 25
June 10. School building, Fairmont, Minn. ..... May 25
June 10. School building, Cleveland, O. ..... May 25
June 10. Street sweeper, Halifax, N. S., Can. ..... May 25
Advertised, Eng. News, May 25 and June 1.
June 10. Bridge bonds ($150,000), Bainbridge, N. Y. June 1
June 10. School building, Washington, D. C. ..... June 1
June 10. School building, Sault Ste. Marie, Mich. ..... June 1
June 10. Areas, drainage, etc., Washington, D.C. June 1
June 12. Breakwater, Larchmont, N. Y. ..... May 18
Advertised, Eng. News, May 18 to June 8.
June 12. Excavation, Portland, Me. ..... May 18
Advertised, Eng. News, May 18 to June 8.
June 12. Breakwater, Fairport Harbor, O. ..... May 18
Advertised, Eng. News, May 18 to June 8.
June 12. Dredging, Lubec, Me. ..... May 18
Advertised, Eng. News, May 18 to June 8.
June 12. Dredging, Mamaroneck Harbor, N.Y. ..... May 25
Advertised, Eng. News, May 25 to June 8.
June 12. Supplying gas, New York. ..... June 1
June 12. School building, Warren, O. ..... June 1
June 12. Paving, Camden, N. J. ..... June 1
Advertised, Eng. News, June 1 and 8.
June 12. Sewer, Yonkers, N. Y. ..... June 1
June 12. Breakwater, Cleveland, O. ..... June 1
Advertised, Eng. News, June 1 and 8.
June 12. Water-works, Blooming Prairie, Minn. ..... June 1
June 12. Brick paving, Alexandria, Ind. ..... June 1
June 12. Paving, Toledo, O. ..... June 1
June 13. Water pipe, castings, etc., Cincinnati, O. ..... May 18
Advertised, Eng. News, May 18 to June 8.
June 13. Brick paving, Canandaigua, N. Y. ..... May 25
Advertised, Eng. News, May 25 and June 1.
June 13. Court house, Brady, Tex. ..... May 25
June 13. Brick paving, Brazil, Ind. ..... June 1
June 14. U. S. building, Newport, Ky. ..... May 18
Advertised, Eng. News, May 18 to 25.
June 14. Government piers, Muskegon, Mich. ..... May 18
Advertised, Eng. News, May 18 to June 8.
June 14. Garbage removal, Hoboken, N. J. ..... May 11
June 14. Court house, Williston, N. Dak. ..... May 25
June 14. Asphalt paving, Elkhart, Ind. ..... June 1
June 15. Electric lighting, Petrolia, Ont. ..... May 11
June 15. Pump and intake, Michigan City, Ind. ..... May 11
June 15. Jail building, Oglethorpe, Ga. ..... May 4
June 15. Dredging, Newport, R. I. ..... May 18
Advertised, Eng. News, May 18 to June 8.
June 15. Dredging, Chicago, Ill. ..... May 18
Advertised, Eng. News, May 18 to June 8.
June 15. Dredging, Galveston, Tex. ..... May 18
Advertised, Eng. News, May 18 to June 8.
June 15. Dredging, Portland, Me. ..... May 18
Advertised, Eng. News, May 18 to June 8.
June 15. Heating, etc., Washington, D. C. ..... May 18
June 15. School building, Oglethorpe, Ga. ..... May 25
June 15. Electric lighting, Abbeville, S. C. ..... May 25
June 15. Electric plant, Arkansas City, Kan. ..... May 25
June 15. Sewers, Glenville, O. ..... May 25
June 15. Sewer bonds, Nevada City, Cal. ..... May 25
June 15. Water-works, Hartford, Mich. ..... May 25
June 15. Dredging, Tampa, Fla. ..... May 25
Advertised, Eng. News, May 25 to June 8.
June 15. Dam, masonry, etc., Clinton, Mass. ..... June 1
Advertised, Engineering News, June 1.
June 15. Concrete core-walls, Clinton, Mass. ..... June 1
Advertised, Engineering News, June 1.
June 15. Electric light plant, St. Paris, O. ..... June 1
Advertised, Eng. News, June 1 and 8.
June 15. Cut stone, Washington, D. C. ..... June 1
Advertised, Eng. News, June 1 and 8.
June 15. Bridge bonds ($8,000), Raleigh, N. C. ..... June 1
June 15. Water-works, Hartford, Mich. ..... June 1
June 15. Steel tank, Nappanee, Ind. ..... June 1
June 16. Steel bridge, Fullerton, Neb. ..... May 18
June 16. Steel bridge, Novelty, Wash. ..... May 25
June 16. Pig lead, Cleveland, O. ..... May 25
June 16. Brick paving, St. Louis, Mo. ..... June 1
June 16. Steel bridge, Genoa, Neb. ..... June 1
June 17. Dump scows (3), Chattanooga, Tenn. ..... May 18
Advertised, Eng. News, May 18 to June 8.
June 17. Masonic hall, Patten, Me. ..... May 25
June 18. Electric power, Plaquemine Bayou, La. ..... May 18
June 19. Water bonds, Morton, Minn. ..... May 25
June 19. Paving, Ashland, O. ..... May 25
June 19. Steel bridge, Hornellsville, N. Y. ..... June 1
Advertised, Eng. News, June 1 and 8.
June 19. Bridges (3), Lebanon, O. ..... June 1
June 19. School building, Lattasburg, O. ..... June 1
June 19. School building, Carrollton, O. ..... June 1
June 19. School building, Charles City, Ia. ..... June 1
June 19. School building, Glenville, Minn. ..... June 1
June 19. Sewer, Toledo, O. ..... June 1
June 20. Electric lighting, Danville, Ky. ..... May 18
Advertised, Eng. News, May 18 to June 1.
June 20. Viaduct, Norwalk, O. ..... May 25
June 20. U. S. building, Helena, Mont. ..... June 1
June 20. School building, Blooming Prairie, Minn. ..... June 1
June 21. Rip-rap, Rock Island, Ill. ..... May 25
Advertised, Eng. News, May 25 to June 15.
June 22. Court house, Marietta, Ga. ..... May 11
June 22. Breakwater, Calumet Harbor, Ill. ..... May 25
Advertised, Eng. News, May 25 to June 15.
June 22. Dredging, Coxsackie, N. Y. ..... May 25
Advertised, Eng. News, May 25 to June 15.
June 22. Traprock quarry, East Haven, Conn. ..... June 1
Advertised, Eng. News, June 1 and 8.
June 24. Electric plant, Newport, R. I. ..... May 25
Advertised, Eng. News, May 25 to June 15.
June 24. Electric light plant, Newport, R. I. ..... June 1
June 26. Iron bridges, Monticello, Mo. ..... June 1
June 26. Rubble stone, Boston, Mass. ..... June 1
Advertised, Eng. News, June 1 to 22.
June 26. Excavation, Buffalo, N. Y. ..... June 1
Advertised, Eng. News, June 1 to 22.
June 27. Pumping engines (2), St. Louis, Mo. ..... May 4
June 27. Dredging, Boston, Mass. ..... June 1
Advertised, Eng. News, June 1 to 22.
June 27. Tainter gates, St. Paul, Minn. ..... June 1
Advertised, Eng. News, June 1 to 22.
June 28. Building work, Chemawa, Ore. ..... May 25
June 28. Dredging, Boston, Mass. ..... June 1
Advertised, Eng. News, June 1 to 22.
June 29. Random stone, Key West, Fla. ..... June 1
Advertised, Eng. News, June 1 to 22.
June 29. Dredging, Tampa, Fla. ..... June 1
Advertised, Eng. News, June 1 to 22.
June 30. Street work, Parabelem, Brazil. ..... May 4
June 30. Electric r'y (23 miles), Shanghai, China. ..... Mar. 2
Advertised, Eng. News, Nov. 17 to Dec. 8.
July 1. Revetments, Koweenaw Point, Mich. ..... May 25
July 1. Revetments, Duluth, Minn. ..... June 1
Advertised, Eng. News, June 1 to 22.
July 3. Plans for kursaal, Harrogate, England. ..... May 18
July 3. Water softening plant, Winnipeg, Man. ..... May 25
July 5. Drainage system, New Orleans, La. ..... May 4
Advertised, Eng. News, May 4 to June 29.
July 8. Bridge, Newman, Cal. ..... June 1
July 10. Harbor and docks, Naples, Italy ..... May 11
July 15. Irrigation systems (2), Wormser City, Mont. June 1
Advertised, Engineering News, June 1.
July 25. Jetty, Portland, Ore. ..... May 25
Advertised, Eng. News, May 25 to June 8.
July 25. Jetties, Portland, Ore. ..... May 25
Advertised, Eng. News, May 25 and June 1.
July 25. Jetty, Portland, Ore. ..... May 25
Advertised, Eng. News, May 25 to June 8.
July 30. Water-works, Milnor, N. Dak. ..... May 11
July 27. Municipal building plans Plumstead, Eng. May 18
Oct. 1. Electric street railway, Moscow, Russia. ..... Mar. 9
No date. Water-works, Arlington, Ia. ..... June 1

RAILWAYS.

ALABAMA & FLORIDA.—E. L. More, Pres., Georgiana, Ala., informs us that R. M. Quigley & Co., St. Louis, Mo., have constructed a 30-mile extension from Georgiana to River Falls, Ala. Surveys have been made to Geneva, 60 miles further, but contracts for this part of the line have not yet been let. Charles Seymour, Ch. Engr., Georgiana.

ATLANTIC, VALDOSTA & WESTERN.—This company is reported to have executed a first mortgage deed to the Central Trust Co., for $5,000,000. The money will be used to take up $711,000 of bonded indebtedness, and to provide for the further extension of the line and construction of terminal facilities near Jacksonville, Fla. Walter Ferguson, Pres., 18 Wall St., New York; F. W. Long, Ch. Engr., Gardner Bldg., Jacksonville, Fla.

BANGOR & AROOSTOCK.—John B. Carter, one of the contractors on the Washington County Ry., which was recently completed, is reported to have taken the contract for grading the proposed extension of this line from Caribou to Van Buren, Me., 28 miles. M. Burpee, Ch. Engr., Houlton, Me.

BISMARCK, WASHBURN & FORT BUFORD.—This company has been incorporated in North Dakota with $500,000 capital stock, to build a line from Bismarck to Fort Buford, N. Dak., 220 miles. The incorporators are W. D. Washburn, James W. Raymond, Martin S. Knox, C. C. Crane and Charles M. Amsden, all of Minneapolis, Minn.

BOISE, NAMPA & OWYHEE.—J. M. Clark, Chief Engr. Nampa, Idaho, informs us that surveys are being made for an extension from Nampa to Horseshoe Bends, 60 miles. The road between Guffey and Murphy, a distance of eight miles, is about completed, and track will be laid 31 miles south from Nampa by June 10. Wm. H. Dewey, Pres., Nampa.

BOSTON & MAINE.—The stockholders of the Concord & Montreal R. R. voted, at a meeting at Concord, N. H., May 24, to accept the act of the last state legislature authorizing the construction of an extension from Manchester to Milford, N. H. B. A. Kimball, Pres.

CENTRAL ASIA.—Press reports state that the Russian government has decided to extend the railways of Central Asia to the town of Vermi, and thence in a northerly direction. A corps of engineers has already started for Tashkend to make the necessary preliminary surveys and determine the route to be taken by the new branch, which is to be constructed by means of private capital, and not from the resources of the state.

CHICAGO, ROCK ISLAND & PACIFIC.—The extension of this line from Chicago, Ind. Ter., west has been completed to a point just south of Oakdale, Ya., and a roundhouse and large freight depots are now being built there. W. E. Dauchy, Supt. of Maintenance and Construction, Topeka, Kan.

CHOCTAW, OKLAHOMA & GULF.—F. A. Miller, Ch. Engr., Little Rock, Ark., informs us that the grading on the extension of this company's line between Howe, Ind. Ter., and Little Rock, Ark., has been completed from Howe to Ola, Ark., a distance of 100 miles, and track has been laid from Howe to Mansfield, 23 miles. Work is being pushed on the belt line in the city of Little Rock, and two caissons are in place on the work of the construction of the Arkansas River bridge at Little Rock. Work is also being pushed on the reduction of the grades at Forrest City and the raising of the tracks through the Mississippi bottom on the Memphis division.

COAHUILA & PACIFIC.—This company has been incorporated in New Jersey, with $500,000 capital stock, by Henry Lilliendahl and Robert S. Hudspeth, of Jersey City, N. J.; William McKenzie, Saltillo, Mex. This company is about to build a standard-gage railway from Saltillo to Torreon, Mexico, 189 miles, under a concession held by A. W. Lilliendahl, Saltillo, Mexico.

FORT DODGE & OMAHA.—Track laying was begun May 24 on this new branch of the Illinois Central R. R. to be built between Tara and Carnarvon, Ia. C. E. Loss & Co., Pullman Bldg., Chicago, Ill., have the general contract, and they have sub-let about 40 miles of grading, averaging about 20,000 cu. yds. a mile.

GUAYAQUIL & QUITO.—Wm. D. Buckner, Asst. Ch. Engr., is now in New York for the purpose of engaging additional engineers for this road in Ecuador. He will return in June, taking with him a construction outfit. His address while in New York city, will be at 49 West 32d St. Edward Morley, Secy., 31 Broad St., New York.

HOUSTON, OAK LAWN & MAGNOLIA PARK.—This company was incorporated in Texas, May 16, with a capital stock of $11,000, to build a line from Houston to Constitution Point, Tex., a distance of 6½ miles. The incorporators are: H. E. Fuller, E. L. Dennis, N. T. Mills, L. E. Mills, H. T. Ring, J. G. Locke and Jonathan B. Frost.

LONG ISLAND.—Among the improvements under way on this system is the installation of a new signal service at Jamaica Junction, Long Island, N. Y., by the Trojan Car Co., Troy, N. Y., which has leased the patents of the Pneumatic Railway Signal Co., Rochester, N. Y.

MADISON.—Charles Skeen, Madison, Ill., is reported to have been awarded the contract for about 25,000 yds. of grading work and track-laying on this proposed line, from Bridge Junction, East St. Louis, Ill., north to the American bottom levee at a point south of Madison. Work is to be completed Aug. 1. The remaining track work is expected to be let in June, so as to complete the entire work by Nov. 1. This company was incorporated Sept. 11, 1897, by G. A. Wilson, Collinsville, Ill.; William B. Dean, St. Louis, Mo., and others, to build a coal belt line between Collinsville and the Wiggins Ferry at East St. Louis.

MEMPHIS & ST. LOUIS.—This company was incorporated May 19, with a capital stock of $200,000, to build a line from New Madrid to a point 25 miles distant in Pemiscot county, Mo. W. A. Barnes, Chas. M. Barnes are incorporators, with headquarters at New Madrid, Mo.

NEW ORLEANS & WESTERN.—Reports state that this company is preparing to extend its line from Bastrop north to Little Rock, Ark. The company's line now extends from Natchez to Bastrop, a distance of 102 miles. The extension, it is said, will be made under the charter of the recently incorporated Little Rock & Gulf Ry. The New Orleans & Northwestern is now only about 14 miles from the Arkansas state line, and from that point the Little Rock & Gulf will carry it into Little Rock. W. C. Dotterer, Gen. Mgr., New Orleans, La.

PATTEN, ALLEGASH & NORTHERN.—Surveys will soon begin, according to reports, for this proposed railway from Patten to Umsaskis, Me., 75 miles, designed principally to open up the lumber trade. It is expected to have at least eleven miles built this year between Patten and Shin Pond. A. A. Burleigh, Pres., Houlton, Me.

ST. LOUIS, IOWA & NORTHERN.—The directors of this company are reported to have voted to issue $3,000,000 in bonds for the construction of a portion of its line from Memphis to Herman, via Edina, Bethel, Paris and Mexico, Mo., 285 miles, about 60 miles of which have been located. C. J. Du Bois, Ch. Engr., Macon, Mo.

SAN FRANCISCO & SAN JOAQUIN VALLEY.—Reports from Stockton, Cal., state that H. E. Barber has been awarded the contract for grading the roadbed of this line through Antioch, Cal., involving the handling of from 30,000 to 40,000 cu. yds. of material. W. B. Storey, Jr., Ch. Engr., San Francisco, Cal.

SPARKS, MOULTRIE & GULF.—Redmond & Co., Atlanta, Ga., are reported to have been awarded the contract for the construction of an extension from a point five miles from Moultrie to Tifton, Ga., 22 miles. Grading is well under way and track-laying is expected to begin soon. M. F. Amorous, Gen. Supt., Sparks, Ga.

TECUMSEH & SHAWNEE.—Incorporated in Oklahoma, May 21, with a capital stock of $15,000, to build between Tecumseh and Shawnee, Okla., six miles. W. Christian and J. W. Mayle, Tecumseh; C. M. Cade, Shawnee, are directors.

TENNESSEE VALLEY.—This company was incorporated at Harriman, Tenn., by local capitalists, according to reports, to build through Roane, Loudon, McMinn and Monroe counties, in Tennessee, to Murphy, N. C., or to the Georgia line, with branch lines to the mines in that district.

TEXAS.—The Missouri, Kansas & Texas, and Sherman, Shreveport & Southern railway consolidation bill, recently passed by the legislature and signed by Governor Sayers, carries with it the proviso that the former line shall be extended from San Marcos to San Antonio, about 50 miles; also that the Sherman, Shreveport & Southern Ry. shall be extended from Jefferson to the state line near Waskom, about 25 miles; both of these extensions to be completed within the next two years. Surveys will be begun at once and it is expected to have the branches completed within a year. A. A. Allen, Gen. Mgr.; J. W. Petheram, Ch. Engr., Dallas, Texas. If the Governor approves the other railway consolidation bills already passed by the legislature and awaiting his signature, they will carry with them the obligation to construct in the next four years, within the state of Texas, extensions approximating 400 miles in length. These are as follows: Missouri, Kansas & Texas, from Jefferson to Waskom, 25 miles, and from San Marcos to San Antonio, 50 miles; Texas & New Orleans, Rockland to Cedar, connection with Tex. Trunk, 150 miles; Gulf, Beaumont & Kansas City, Kirbyville to state line, not defined, 150 miles; Houston & Texas Central, Burnet to Lampasas, 20 miles.

TRENTON, LAWRENCEVILLE & PRINCETON.—We are informed that this new line of steam railway from Trenton to Princeton, via Lawrenceville and Roseville, N. J., 11 miles, has been graded for five miles and laid with three miles of 65-lb. rails. Vandegrift & Co., 311 Drexel Bldg., Philadelphia, Pa., were the general contractors. The contract for constructing the remaining six miles will be let on June 3. J. L. Branson, Pres., Langhorne, Pa.; E. G. Well, Ch. Engr., Trenton, N. J.

WEST VIRGINIA SHORT LINE.—We are informed that Gooch, Rinehart & Davis, Clarksburg, W. Va., were awarded the contract for the construction of the substructure of this railway, May 26, by the Mountain State Construction Co. of West Virginia. This line is to form a connection between the Ohio River R. R. at Martinsville and Clarksburg, W. Va., via Fishing Creek and Ten Mile Fork of the West Fork of Monongahela River and the coal and oil territories of Harrison and Wetzel counties, a distance of 60 miles. The graduation is heavy work, involving about 2,000,000 yds. of excavation, one mile of tunnels and a number of bridges. Geo. A. Burt, Pres., Vice-Pres. of Ohio River R. R. of Parkersburg, W. Va.; J. V. Davies, Ch. Engr., of Jacobs & Davies, 32 Nassau St., New York.

STREET AND ELECTRIC RAILWAYS.

EXETER, N. H.—A hearing will be given by the railroad commissioners at Hampton, N. H., June 29, on the petition of the Exeter, Hampton & Amesbury St. Ry. Co. to issue $225,000 of capital stock and first mortgage bonds to the same amount for the purpose of acquiring the properties of the Exeter St. Ry. Co., the Hampton & Amesbury St. Ry. Co. and the Rockingham Electric Co. Harry G. Sargent, Concord, N. H., is interested.

COHASSET, MASS.—Reports state that the work of installing electricity on the Plymouth division of the Consolidated system between Nantasket Junction and Cohasset is progressing rapidly. The old 75-lb. rail has been replaced by the standard 100-lb. rail; many of the trolley poles are in place, and the third rail is being laid. The line is expected to be in running order about June 11.

READING, MASS.—Col. C. F. Woodward, Wakefield, Mass., has applied to the selectmen for a franchise to extend the Lawrence & Reading St. Ry. in this town.

WESTFIELD, MASS.—Bids are asked by the Woronoco St. Ry. Co. until June 5 for constructing about four miles of electric railway. Jas. H. Bryan, Pres., Westfield.

MONTVILLE, CONN.—We are informed that M. A. Zuckardy & Co., R. M. Duchette, Pres., of New London, Conn., have the subcontract from J. F. Shaw & Co., Boston, Mass., for grading the proposed line of the Montville Electric Ry. between New London and Norwich, 13¾ miles; work to be completed by Aug. 21.

ELMIRA, N. Y.—We are informed that the American Engineering Co., 710 Harrison Bldg., Philadelphia, Pa., H. M. Herbert, Ch. Engr., Montour Falls, N. Y., will commence tracklaying and overhead work this week on the proposed Elmira & Seneca Lake Ry., 17 miles in length. J. E. Mulford, Pres., Montour Falls, N. Y.

FORT EDWARD, N. Y.—The Glen Falls, Sandy Hill & Fort Edward St. R. R. Co. has applied to the village trustees for a franchise to extend its line through this place. J. M. Coolidge, Pres., Glen Falls, N. Y.

NIAGARA FALLS, N. Y.—Herbert P. Bissell, Buffalo, N. Y., is reported to have bought the Niagara Falls & Lewiston Electric R. R., known as the "Gorge Road," at public auction at Lockport, May 23; Godfrey Morgan, Receiver. It is said that plans are being prepared by George Ricker, Engr., Buffalo, for the reconstruction of the line, including the erection of iron bridges to replace the present wooden structures.

SILVER SPRINGS, N. Y.—John H. Duncan, Silver Springs, informs us that the right of way has been secured for the proposed Perry, Castile, Silver Springs & Pike electric railway from Perry to Pike, via Silver Springs, Castile and Lamont, 20 miles. The capital for construction has not yet been secured, nor has an engineer yet been selected. Jos. M. Duncan, Pres., Silver Springs.

STILLWATER, N. Y.—Warner & Madigan, Mechanicsville, N. Y., are reported to have received the contract for building the electric line between Stillwater and Schuylerville.

SOUTH AMBOY, N. J.—It is reported that arrangements have been about completed between the Brunswick Traction Co. and Sayre & Fisher, Sayreville, N. J., for the construction of a line from the present terminus near South River to South Amboy.

ERIE, PA.—About 100 men and several teams began work, May 22, on the proposed Erie, Edinboro & Cambridge Motor Line, to be about 27 miles in length; work to be completed this summer. C. M. Stephens, Engr., Peach St., Erie.

PITTSBURG, PA.—Booth & Flinn, Ltd., 1942 Forbes St., Pittsburg, were awarded the contract, May 22, for the reconstruction of the Suburban Rapid Transit line and the construction of the new South 22d St. line of the Consolidated Traction Co., to cost between $600,000 and $700,000. The rail will be of the 90-lb. girder pattern from the Federal Steel Co.; the poles will be supplied by the Pennsylvania Tube Works, and the cars will be built by the Laclede Car Co., St. Louis. Work is to begin at once, and the lines are expected to be running by Sept. 1. G. F. Greenwood, Constructing Engr.

WEST CHESTER, PA.—The West Chester, Kenneth & Wilmington Electric Ry. Co. was incorporated May 26, with $50,000 capital stock, to build an electric street line eight miles in length between the towns named. Geo. W. Taft, Pres., Kenneth Square, Pa.; Frank H Hawkins, Philadelphia, and Wm. H. Heald, Wilmington, Del., Directors.

HAMPTON, VA.—The council has granted a franchise to the Newport News & Old Point Ry. & Electric Co. a 50-year franchise to build a double-track system over Armistead Ave. and Queen St.

CLARKSBURG, W. VA.—The council has granted a franchise to V. L. Highland, S. C. Denham and others to construct a street railway in this city; work must be completed within three years.

BOWLING GREEN, O.—The commissioners of Wood county have granted the Toledo & Norwalk Electric Ry. the right of way along Woodville Pike for a distance of 5½ miles.

BURTON, O.—Eugene Rawdon, Windsor, O.; Clayton Reeves, Orwell, O., and others, contemplate the incorporation of the Burton, Jefferson & Andover Electric Ry. Co., to construct an extension of the Cleveland-Burton line.

DAYTON, O.—The commissioners of Montgomery county, May 18, granted a 50-year franchise to the Dayton & Xenia Traction Co.——Contractor Ritty is reported to have commenced work at Dayton on the construction of the Dayton, Springfield & Urbana Electric Ry. with about 400 men; work is to be completed before July 15.

COLDWATER, MICH.—We are informed that George A. Bullard, Marshall, Mich., and others, are interested in the construction of a proposed railway from Coldwater to Lansing, via Girard, Tekonsha, Marshall, Duck Lake and Eaton Rapids. As now contemplated, about 70 miles of track will be built and compressed air used as the motive power. It will be a cross-country line through well populated districts, and will not parallel any steam lines.

KALAMAZOO, MICH.—The council has granted a 30-year franchise to the Grand Rapids & Kalamazoo Electric Ry.

KALAMAZOO, MICH.—We are informed that the American Engineering Co., 710 Harrison Bldg., Philadelphia, Pa., has been awarded the contract for constructing and equipping a single-track high-speed electric railway from Kalamazoo to Battle Creek, with a branch to Gull Lake, a distance of about 27 miles, for the Michigan Traction Co., which already operates lines in Kalamazoo and Battle Creek. Work will begin at once. H. M. Herbert, Ch. Engr. of American Engineering Co.

SYCAMORE, ILL.—The supervisors of Dekalb county have granted a franchise to the Lake Geneva, Sycamore & Southern Electric Ry. Co.

WHITEBEAR LAKE, MINN.—The council has granted to the Twin City Rapid Transit Co., of Minneapolis, a franchise to build through this village.

KANSAS CITY, MO.—W. O. Hands, Mgr. of Northeast Electric Ry., is reported as stating that work on the construction of this line to Heims' brewery will begin on June 10.

ST. LOUIS, MO.—Harry E. Wagoner, J. C. Jones and Aikman Welch, of St. Louis, have petitioned the court of St. Louis county for a franchise to build an electric line from Jefferson Barracks to Chain of Rocks, 25 miles.

SEATTLE, WASH.—F. H. Osgood, Pres. of Seattle & Renton Ry. Co., Seattle, informs us that the matter of extending this company's lines seven miles south towards Kent has not been definitely settled.

PONCE, PORTO RICO.—Reports state that an electric railway will soon be built from Arecibo to Ponce, via Utado, Jayuya and other towns for Arpin & Bros., San Juan, Porto Rico.

SEOUL, KOREA.—H. N. Allen, Consul-General to Korea, reports, March 31, that H. Colbran, the American contractor for the Seoul-Chemulpo Ry., was just completing the construction of an overhead-trolley electric street railway, some six miles in length, in Seoul, for a Korean company. The materials for this road are from America and Japan, the car bodies having been constructed by the Japanese.

ELECTRIC LIGHT AND POWER.

KEENE, N. H.—The Keene Gas Light Co. has submitted a proposition to furnish electric light. Robt. S. Hale, Elec. Engr., Boston.

STAUGHTON, MASS.—Everett M. French has asked for permission to build and operate a plant.

NEWPORT, R. I.—Bids are asked until June 24 for furnishing and installing an electric light and power plant in gun emplacement at the Dumplings, Conanicut Island, R. I. Mayor D. W. Lockwood, U. S. Engrs., Newport.

HERKIMER, N. Y.—The Herkimer County Light & Power Co. has filed its bond for $25,000. It has secured a franchise to build and operate an electric and gas plant.

JOHNSTOWN, N. Y.—The Johnstown Electric Light & Power Co. and the Gloversville Electric Co. have sold their plants to the Brady-Wildener syndicate, of New York. The Johnstown Electric Light & Power Co. recently secured a new franchise for 99 years and a contract to light the city of Johnstown for five years at $84.50 a lamp of 1,200 c. p.; it also has contracts for lighting stores and buildings and for furnishing power that brings in a large revenue, and for furnishing a large number of factories and stores with light and power at Gloversville.

SYRACUSE, N. Y.—Eugene Hughes, Wm. B. Kirk and Col. John F. Gaynor are forming a new company to put in a new plant and to furnish cheaper light.

YONKERS, N. Y.—The Terrace City Improvement & Construction Co., recently incorporated, has applied for a lighting franchise. Fremont Wilson may be addressed.

NEWARK, N. J.—The New Light, Heat & Power Co. has been awarded the contract for electric lighting, at $10.95 a light a year. The plant is now under construction. D. P. Smith, Pres. First National Bank, and Frank Gerslock are interested.

BRIDGEPORT, PA.—It is stated that the county commissioners will soon build a plant here to cost $10,000.

WESTMOORE, PA.—C. B. Johnson writes us that no bids will likely be asked for building the plant.

WEST NEWTON, PA.—Bids are asked until June 27 for constructing a plant. J. C. Adair, Borough Clk.

ASHEVILLE, N. C.—Press reports state that work has already been begun on the proposed power plant on the Big Ivy River at Asheville. A dam 340 ft. long on the top and 125 ft. at the bottom will be built. Lt.-Gov. C. A. Reynolds, of North Carolina; W. B. Ellis, Winston, N. C., and Geo. E. Claflin, Elec. Engr., Providence, R. I., are interested.

LOUISBURG, N. C.—It is stated that this place wishes to correspond with engineers and manufacturers of supplies for putting in a plant, water-works, etc. J. M. Allen and Wm. Bailey may be addressed.

JENNINGS, LA.—It is proposed to build a plant and water-works, according to reports.

CHATTANOOGA, TENN.—W. B. Swaney, Chn. Com., writes us that the committee has several locations for a plant in view, and is negotiating with local parties and also some non-residents to erect a plant.

SEWANEE, TENN.—B. L. Wiggins, Vice-Chancellor, writes us that bids are wanted for a plant for the University of the South.

LEXINGTON, KY.—Press reports state that the Jno. L. Williams & Sons, Richmond, and Middendorf, Oliver & Co., Baltimore, Md., who have recently purchased the plant and street railway here, will spend about $100,000 in improvements.

ST. PARIS, O.—Bids are asked until June 15 for furnishing and erecting the electrical and mechanical equipment for an electric light plant for this village, as stated in our advertising columns. J. J. Richeson, Village Clk. Plans may be seen at the office of the Hays Construction Co., 106 West Main St., Troy, O.

SOUTH BEND, IND.—Jas. Oliver and the Chapin estate propose to build a plant to furnish light and power to the towns near here.

TEKOUSHA, MICH.—It is proposed to build a plant and a sewerage system.

WAYNE, MICH.—This village contemplates the construction of an electric light plant and a water-works system.

CENTRALIA, ILL.—This place, Kinmundy and Louisville, Ill., propose to put in plants, according to reports.

EARLVILLE, ILL.—J. J. Pool & Co. are reported to have asked for a franchise for a plant.

HIGHLAND, ILL.—John Leu, Mayor, writes us that the contract with the present company expires March 21, 1900, so the city has ample time to decide the question of putting in a plant of its own.

DURAND, WIS.—W. H. Huntington, Secy. Durand Light & Power Co., writes us that bids will be wanted this month for building the plant. The old plant had about 800 incandescent 16-c. p. lights. The company expects to double this, and also transmit 250 HP. to this place, six miles distant, to use for manufacturing purposes. The capital stock is $25,000.

OCONOMOWOC, WIS.—The question of the municipal ownership of the plant and water-works is being considered. Aldermen Fay, Derse and Solveson may be addressed.

OSHKOSH, WIS.—J. K. Tillotson, of Toledo, O., is reported as buying the properties of the Oshkosh Gas & Electric Co., the Citizens' Traction Co., and the Oshkosh Electric Light & Power Co.

PRINCETON, MINN.—Bids are asked until June 9 for constructing a plant and a water-works system in this village. J. W. Hartman, Village Recorder; C. F. Loweth, Engr., St. Paul, Minn.

KAHOKA, MO.—The question of building a plant is being considered, according to reports.

EL PASO, TEX.—We are informed that bids will now be received by the International Electric & Power Co. for erecting a plant to cost about $25,000. The stock of the company has been subscribed and it will proceed to do business at once.

GRASS VALLEY, CAL.—City Trustees Collins, Perkins and Harris have been appointed a committee to report on the question of putting in a plant.

PASADENA, CAL.—The city trustees have granted permission to the Los Angeles Electric Light Co. to put up poles, etc.

SANTA ANA, CAL.—The trustees of Santa Ana are said to be considering the advisability of granting a franchise to the Edison Electric Light Co., Los Angeles, Cal., for erecting a plant in this city.

SAN FRANCISCO, CAL.—Reports state that the Independent Electric Light & Power Co., recently organized by Claus Spreckels, awarded the following contracts May 18 for the construction of the new works: Babcock & Wilcox, boilers to develop 8,000 HP.; McIntosh & Seymour, Auburn, N. Y., three engines of 2,400 HP. each, and two engines of 150 HP. each (compound and condensing engines of the latest approved pattern); the Westinghouse Mfg. Co., dynamos; the Standard Underground Cable Co., the cables. All this machinery is to be installed within the next eight months and the works will be in operation in ten months.

PHOENIX, ARIZ.—Press reports state that the proprietor of the Ingleside Hotel will put in a plant, an electric railway, etc.

QUEBEC, QUE.—Bids are asked by the Province of Quebec until June 8 for the purchase of the water power of that part of the River Ottawa opposite the township of Onslow, four miles from Quoyon Station, of the Pontiac & Pacific Ry., comprising the rapids and falls of "Les Chutes des Chats," as well as the islands in connection therewith. The upset price will be $20,000 and a deposit of $5,000 will be required. The purchaser must also bind himself to spend $300,000 in the way of improvements and development of the said water power, within a delay of three years from date of sale.

NEWCASTLE, NATAL.—The council has decided to build a large plant, but only a small one for the present, and for this, it is stated that bids will be asked.

NEW COMPANIES.—Gas & Electric Co. of Bergen County, Hackensack, N. J.; $2,000,000; a consolidation of the lighting companies of Englewood, Rutherford and Ridgewood, N. J.; Frank B. Poor, Pres.; Edward E. Poor.

East Tennessee Light & Power Co., Athens, Tenn., $10,000; W. R. Hall, B. M. Brewer, H. S. Bosler.

Economic Electric Co., Wilkesbarre, Pa.; $75,000; J. E. Sayre, Wilkesbarre, Pa.; E. H. Dairs, Brooklyn, N. Y.

Empire Heat & Light Co., Westfield, Kings county, N. B.; $30,000; Wm. E. Earll, Andrew Blair, Hazen J. Dick, St. John, N. B.

Economic Electric Co., Wilkes-Barre, Pa.; $75,000, with $7,500 paid in; Francis A. Phelps, Pres.; Andrew A. Derr and Frank E. Parkhurst, of Wilkes-Barre; E. Howell Davis, Brooklyn, N. Y.

BRIDGES.

MOOSUP, CONN.—Reports state that the question of tearing down the old wooden bridge across the Moosup River and erecting a new iron one is being considered.

BAINBRIDGE, N. Y.—Bids are asked until June 10 for $15,000 3½% semi-annual bridge bonds. Merton Hastings, Town Clk.

CANASTOTA, N. Y.—It is stated that the contract for the construction of the new hoist bridge, to be erected over the Erie Canal, has been awarded to the Havana Bridge Co., Montour Falls, N. Y., at $15,693.

BINGHAMPTON, N. Y.—Reports state that the following bids have been received for the construction of the Tompkins St. bridge: Pittsburg Bridge Co., $46,204; Youngstown Bridge Co., $43,148; Toledo Bridge Co., $41,506; Elmira Bridge Co., $40,249; Brackett Bridge Co., $38,996; Owego Bridge Co., $36,400; Groton Bridge Co.,

$34,978 (accepted).——The contract for building two iron bridges has been let to the Owego Bridge Co., at $2,300, according to reports.

GLENS FALLS, N. Y.—Reports state that plans and specifications are about to be prepared for two iron bridges over the Halfway Brook, on Bay Road and on Brickyard Road.

HORNELLSVILLE, N. Y.—Bids are asked until June 19 for the construction of a 55-ft. plate-girder bridge, as stated in our advertising columns. F. W. Dalrymple, Cy. Engr.

ROCHESTER, N. Y.—Reports state that Supervisors Gates, Thompson, Frisbee, Dubelbeiss and Schwartz, constituted the committee which overlooked the site for the proposed bridge across the river at the Ridge road.

SODUS CENTRE, N. Y.—It is reported that the highway commissioners have taken the necessary measurements for the arch bridge to be erected over Salmon Creek on Main St.

SYRACUSE, N. Y.—It is reported that the common council has directed the corporation counsel to prepare a resolution requiring the lessees of the Syracuse Northern Ry. to construct a bridge over the Erie Canal at Franklin St.

HOBOKEN, N. J.—Reports state that the construction of a $50,000 viaduct connecting Hoboken and Jersey City Heights is being considered.

NEWTON, N. J.—It is reported that the Sussex county board of freeholders has appropriated $8,000 for bridge work for the ensuing year.

SAYREVILLE, N. J.—It is reported that the request for an appropriation of $6,000 for a bridge over the South River at this place will probably be granted.

SPRING CITY, PA.—Reports state that J. G. Yeager, J. Howard Richard and Samuel Diemer of this place have been appointed to view a site for a county bridge over Rock Run, in South Coventry township.

WILKESBARRE, PA.—It is stated that the question of erecting two bridges to span the pond-holes between the lower Wilkesbarre bridge and Kingston is being considered; estimated cost, $42,000.

OLDTOWN, MD.—It is reported that a bridge over the Potomac River will be erected by Maryland and Virginia at a cost of $10,000.

WASHINGTON, D. C.—Bids are asked until June 15 for furnishing and delivering at Pier No. 4, of the Aqueduct Bridge, Potomac River, D. C., about 500 cu. yds. of cut stone for bridge ashlar masonry, as stated in our advertising columns. Apply to the Central Contracting Co., 99 Cedar St., New York.

RALEIGH, N. C.—Bids are asked by B. P. Williamson, County Treas. of Wake county, until June 15, for $8,000 of 30-year 6% bridge bonds.

NATCHEZ, MISS.—Bids are asked by the board of surveyors of Adams county until June 5 for the construction of a steel bridge over Balfour Bayou on Pine Ridge Road.

LEBANON, O.—Bids are asked until June 19 for the construction of bridges over Caesar's Creek, Tuttle Creek and Dry Run. S. N. Walker, County Audr.

FRANKFORT, IND.—Bids are asked until June 5 for the construction of seven bridges, and until June 19 for the construction of three bridges, according to reports. J. R. Brown, County Engr.

INDIANAPOLIS, IND.—Reports state that City Engineer Jeup, in his report regarding the safety of the present structures which span Fall Creek and White River, will recommend complete new bridges at several points; it is estimated that $200,000 will have to be raised for bridge improvements.

ADRIAN, MICH.—Reports state that the House has passed a bill authorizing Palmyra township to erect a bridge over Raisin River; estimated cost, $7,000.

ECORSE, MICH.—Reports state that the supervisors have decided to replace the Fort St. structure with a swing bridge.

HOUGHTON, MICH.—It is stated that a bill has passed the Senate, providing for the erection of a bridge over the Sturgeon River.

CHICAGO, ILL.—Press reports state that L. E. McGann, Com. Pub. Wks., will apply for a permit to erect a bridge across the river in the vicinity of St. Clair St., Central Ave., or some other point east of Rush St.

DAKOTAH, IA.—Bids are asked until June 6 for the construction of a steel bridge. Harwood Sharp, County Audr.

ST. PAUL, MINN.—Local press reports state that City Bridge Engineer Munster will soon ask for bids on a million and a half pounds of material to be placed at the south end of the present structure on South Wabash St.

GENOA, NEB.—Bids are asked until June 16 for the erection of a steel bridge, 60 or 70 ft. long, over Beaver Creek. G. W. Ellsworth, County Clk.

OMAHA, NEB.—It is reported that the 16th St. viaduct has been condemned, and City Engineer Rosewater has been ordered to prepare plans for a new one.

CLEAR LAKE, S. DAK.—Bids are asked until June 5 for the construction of a bridge across the creek between Blom and Grange townships. O. E. Olsen, Town Clerk of Blom Township.

HOLTON, KAN.—Bids are asked until June 6 for the construction of two iron bridges. G. D. Abele, County Audr.

GALLATIN, MO.—Bids are asked by George W. Lockridge until June 5 for a steel bridge across Grand River, according to reports.

MONTICELLO, MO.—Bids are asked until June 26 for the construction of iron bridges; spans 170 ft., 125 ft., 40 ft., etc. Geo. H. Roberts, County Comr.

OREGON, MO.—Bids are asked until June 6 for the construction of 13 wooden bridges, ranging from 16 to 22 ft. in length; and for the construction of eight steel bridges, from 22 to 56 ft. in length. C. G. Landon, Road Comr, Holt County.

VICTORIA, TEX.—Reports state that the County Commissioners have ordered the construction of an iron bridge across the San Antonio River, and that bids will soon be asked for.

DENVER, COLO.—Bids are asked until June 5 for the construction of a combination wood and iron bridge across Grand River at Hot Sulphur Springs. Addison J. M'Cune, State Engr.

IDAHO SPRINGS, COLO.—Bids are asked until June 15 for the construction of a bridge across Clear Creek at Big Bar, according to reports. Addison J. M'Cune, State Engr, Denver.

MEDFORD, ORE.—Bids are asked by the county judge until June 7 for the construction of a covered bridge over Antelope Creek on Eagle Point and Medford Road.

NEWMAN, CAL.—Bids are asked by the Board of Supervisors until July 8 for the construction of a bridge across the San Joaquin River at Hill's Ferry.

BUILDINGS.

BANGOR, ME.—The Mills Building Co. has been organized at Bangor, with a capital stock of $100,000, for the purpose of erecting a 7-story building at State and Exchange Sts. L. J. Morse, Pres.; H. P. Oliver, Treas.

MADISON, ME.—The Odd Fellows Building Association has been organized to erect a society building, to cost about $15,000. C. O. Small, Pres.; J. M. Hilton, Treas.

GLOUCESTER, MASS.—Bids are asked until June 1 for constructing a brick school building in this city. J. J. Somes, Clk.; Bailey & Spofford, Archs.

LYNN, MASS.—Bids are asked until June 3 for erecting a 2½-story telephone exchange building at Lynn. Plans are at the engineer's office, 104 Milk St., Boston.

NEW HAVEN, CONN.—Brown & Van Beren, 70 Church St., New Haven, have been selected as architects for the proposed Y. M. C. A. building, to cost $150,000. Nineteen architects sent in competitive plans. Wm. G. Lotze, Secy.; Prof. A. D. F. Hamlin, Consulting Arch., Columbia University, New York.

ALBANY, N. Y.—Bids are asked until June 5 for erecting a free public bath building in this city. Thos. J. Lanahan, Clk. Bd. of Contract.

BUFFALO, N. Y.—The American Express Co. will erect an office building at Erie and Main Sts., to be occupied by May 1, 1900. E. H. Kendall, Arch., New York.—— Plans have been completed for a new warehouse building for John Hayman & Co., to cost $30,000. Eisenwein & Johnson, Archs.——The Pan-American Exposition Co. has selected the Rumsey site and will begin grading and filling in at once, preparatory to building. Edwin Fleming, Secy.; George Rickert, Engr.

COBLESKILL, N. Y.—Bids are asked until June 1 for alterations and additions to the Cobleskill high-school building. L. A. Hodge, Secy. Bd. of Education; I. G. Perry, Arch., Bingham on, N. Y.

DANNEMORA, N. Y.—Governor Roosevelt has signed Senator Chahoon's bill making appropriations for the Dannemora State Hospital for Insane Convicts, as follows: For boiler house, dynamo room, coal house, chimney and conduit, $26,200; for plumbing and draining east wing, kitchen and dining-room, $10,000; for providing an electric plant, wiring and fixtures, $12,210; for a boiler and for heating and ventilating systems for east wing, kitchen and dining-room, $2,500.

GOWANDA, N. Y.—Bids are asked until June 6 for erecting a 6-room brick addition to the present school building, and for a heating and ventilating apparatus for the same. Address Charles S. Howland. Aug. C. Esenwein, Arch., Ellicott Square, Buffalo, N. Y.

NEW YORK, N. Y.—Plans have been filed by J. F. Fitzpatrick, 99 Nassau St., for four 5-story brick flat and store buildings at Amsterdam Ave. and 129th st, to cost $90,000. Edward Wenz, Arch., 1491 3d Ave.; by C. H. Beer, for six 5-story brick flat and store buildings at 171st St. and Washington Ave., to cost $155,000. Neville & Bagge, Archs., 217 West 125th St.; by B. A. Williams, 20 East 92d St., for four 5-story brick dwellings at 18 to 24 East 94th St., to cost $100,000. Van Vleck & Goldsmith, Archs., 111 5th Ave.; by Peter Marie, 6 East 37th St., for an 18 and 19-story brick office building at 72 and 74 Broadway, to cost $370,000. H. B. Jennings, Arch., 41 Wall St.; by J. Livingston, for eight 6-story brick flat buildings at 706 to 720 East 5th St., to cost $200,000. M. Bernstein, Arch.; by Gaines & Roberts, 703 East 135th St., for five 5-story brick flat buildings on 137th St., near Willis Ave., to cost $110,000. H. S. Howell, Arch., 748 East 138th St.; by Lorenz F. J. Welher, Owner and Arch., 81 East 125th St., for twenty-five brick flat buildings on 150th St., near Brook Ave., to cost $460,000; by Mrs. E. G. Stillman, 95 Joralemon St., Brooklyn, N. Y., for a 5-story brick dwelling on 78th St., near 5th Ave., to cost $80,000. C. C. Haight, Arch., 111 Broadway; by S. I. Davis, for four 6-story brick flat and store buildings at 77th St. and 2d Ave., to cost $110,000. Neville & Bagge, Archs.; by Mary Paget, for improvements to the hotel building at 27th St. and Broadway, to cost $150,000. Hill & Turner, Archs.; by Ast & Exner, 1523 Ave. A, for three 5-story brick flat and store buildings at Lenox Ave. and 112th St., to cost $120,000. John Hauser, 1441 3d Ave.; by the Cushman Syndicate, 27 William St., for a 2-story and basement brick market house at 8th Ave. and 49th St., to cost $175,000. David W. King, 1133 Broadway; by August Shauer, 2449 2d Ave., for five 4-story brick tenement buildings at Franklin Ave. and 167th St., to cost $78,000. C. S. Clark, Arch., 719 East 177th St.; by Jas. J. Belden, Syracuse, N. Y., for a 15-story brick hotel building at Madison Ave. and 43d St., to cost $750,000. H. J. Hardenburg, 10 West 23d St.; Marc Eidlitz & Son, Builders, 489 5th Ave.; by John Welcker, 400 St. Nicholas Ave., for a 7-story brick flat and store building at Lexington Ave. and 92d St., to cost $60,000. M. V. B. Ferdon, Arch., 147 East 125th St.——The following bids were received by the department of correction, May 25, for plumbing and drainage in the new City Prison:

NEW YORK, N. Y.—The following bids were received by the board of education May 29 for heating, ventilating, electric lighting, plumbing, elevators, etc., in the new hall of board of education: Thos. Cockerill & Sons, 550 W. 41st St., $191,400; E. Rutzler, 178 Centre St., $187,000; Frank Dobson, 218 E. 42d St., $197,800; Baker, Smith & Co., 83 West Houston St., $198,150; Gillis & Geoghegan, 537 West Broadway, $200,000.

Howe & Bassett, Rochester, N. Y. (accepted)	$66,500
W. J. O'Brien, 835 6th Ave	68,100
Wells & Newton Co., 231 Eldridge St	75,731
L. D. Hosford, 68 Beekman St	80,000

NORTH TARRYTOWN, N. Y.—Bids are being asked for the construction of a new school biulding, to be erected at Beekman Ave. and Pocantico St.

ORIENT (L. I.), N. Y.—The following bids were received on May 18 for heating the hospital at Plum Island, N. Y.: Capt. George A. Nugent, Q. M., Fort Trumbull, Conn.; C. H. Gridley & Co., Elmira, N. Y., $1,250 and $1,280; Barr & Creelman, Rochester, N. Y., $1,130; E. Rutzler, New York, $1,761; Orson F. Curtis, New Britain, Conn., $990.

DOVER, N. J.—Bids are asked by the trustees of the Hoagland Memorial Church until June 8 for the erection of the proposed church building at Dover. Paul G. Botticher, Arch., 751 Broad St., Newark, N. J.

ELIZABETHPORT, N. J.—Plans have been prepared, according to reports for a new bank and office building for the Elizabethport Banking Co., 131 1st St., to cost about $30,000. Mowbray & Uffinger, Archs., 49 Liberty St., New York.

SHREWSBURY, N. J.—The carhouse of the Red Bank & Long Branch Electric Ry.Co. at this place was destroyed by fire May 24; reported loss, $50,000. James Degnan, Receiver.

WEEHAWKEN, N. J.—It is reported that the New York Central & Hudson River R. R. Co. will soon erect a grain elevator at the old West Shore terminal at Weehawken, to have a capacity of 3,000,000 bushels.

COUDERSPORT, PA.—The Coudersport & Port Allegany R. R. Co. is about to erect a new station and office building at this place, to cost $6,000. Brown & Brown, Archs., Prudential Bldg., Buffalo, N. Y.

IDLEWOOD, PA.—Plans have been prepared for an asylum building to be erected for the St. Paul's Roman Catholic Church at this place, to cost $100,000.

BALTIMORE, MD.—John Hiltz has been awarded the contract for erecting a 6-story building at Charles and Lexington Sts. for Thomas O'Neill & Co., at $64,000.

FROSTBURG, MD.—Plans have been accepted for new Frostburg normal school building, to cost about $20,000. Alfred Mason, Arch., 746 West Baltimore Ave., Baltimore.

NORTH POINT, MD.—We are informed that the following bids were received by Col. Peter C. Hains, U. S. Engr., Baltimore, May 25, for erecting a brick store house at North Point, as advertised in Engineering News: all bidders of Baltimore, Md.: Albert Weber, $2,000; A. M. Carroll, $4,377; Balto. Bolt & Iron Works, $4,056; Nardin & Co., $4,285.

WASHINGTON, D. C.—T. F. Schneider is preparing sketch plans for a 7-story apartment building to be erected in the northwest section of the city at an estimated cost of $150,000.——H. A. Campbell has plans for an apartment building to be erected at Vermont Ave. and T St. by D. D. Cameron.——Plans have been prepared by N. T. Haller for a 4-story apartment building to be erected on Park St. for Chas. W. King, to cost about $20,000.

WASHINGTON, D. C.—The following bids were received by the weather bureau May 22 for constructing brick additions to the present annex buildings of the U. S. Bureau in this city; all bidders of Washington, D. C.:

		Time.
C. Thomas & Son	$29,800	6 mos.
Henry G. Getz	27,671	5 mos.
John McGregor	24,919	5 mos.
T. A. Blundon	24,429	3 mos.
Benjamin Blethyn	28,619	4 mos.
F. M. Carver	26,900	*120 days
E. Landvoight	24,456	5 mos.
J. F. Manning & Co.	26,965	7 mos.
Peter McCarthy	23,000	4 mos.
Richardson & Burgess	26,415	10 mos.
Meads & Reynolds	21,995	5 mos.
D. F. Moohbee	22,561	4 mos.
Paverina & Greer	23,577	*120 days
W. E. Spear	27,500	*90 days
Wm. Rothwell	24,860	6 mos.
J. Edward Turton	24,000	4½ "

*Working days.

WASHINGTON, D. C.—Bids are asked by the district commissioners until June 10 for erecting an 8-room school building at 15th St., between Gales and Rosedale Sts., N. E.; also until June 3 for repairs to the plumbing to 14 school buildings.

RICHMOND, VA.—Bids are asked by the supervisors of Henrico county until June 6 for certain improvements to the jail building. C. Ruehrmund, Arch., 16th and Main Sts.

STATESVILLE, N. C.—Bids are asked by the commissioners of Tredell county until June 5 for the erection of a court house. Hayden, Wheeler & Schwend, Archs.

BIRMINGHAM, ALA.—Bids are asked until June 6 for erecting a 5-story building for Rich & Biederman. Hodgson & Collingnon, Archs.

LOUISVILLE, KY.—Plans have been selected for the new 16-room school building to be erected for the school board at 2d and Hill Sts., to cost $43,478. Chas. D. Meyer, Arch.

NEWPORT, KY.—B. C. De Camp, Cincinnati, O., has been selected to prepare plans for a chapel and receiving vault for the Greenwood Cemetery Co., of Newport, to cost about $15,000.

CARROLLTON, O.—Bids are asked until June 19 for erecting a new school building. W. S. Stevens, Clk.

LACARNE, O.—Bids are asked until June 3 for erecting a new school building in District No. 2, Erie township. Jacob Floro, Clk.

LATTASBURG, O.—Bids are asked until June 19 for erecting a school building for Chester township, Wayne county. Jesse W. Ebert, Clk. Bd. of Education.

WARREN, O.—Bids are asked until June 12 for erecting an 8-room school building on East Market St. H. B. Drennen, Clk. Bd. of Education.

KENT CITY, MICH.—Bids are asked until June 8 for erecting a hall in this city for Tyron Township. C. H. Whitney, Sr., Clk.

SAULT STE. MARIE, MICH.—Bids are asked until June 10 for erecting an 8-room school building to cost $23,000. J. T. Moore, Secy. Bd. of Education.

CHICAGO, ILL.—Plans have been prepared for a 3-story stone dwelling for John R. Thompson on the Grand Boulevard, near 44th St., to cost $50,000. Wilson & Marshall, Archs.——A 3-story apartment building will be erected at 5800 and 5802 Indiana Ave., to cost $45,000. L. M. Mitchell, Arch.——Plans have been prepared for a 3-story apartment building to be erected at 5401 and 5403 Woodlawn Ave. for William McGuire, to cost $40,000. Arthur Foster, Arch.——Plans are being completed for a sanitarium building to be erected on 51st St., near Cottage Grove Ave., for the Chicago Hospital, to cost about $200,000. Barfield & Hubbell, Archs., 87 Washington St. ——Rosencranz & Mott, Consulting Engrs., 1336 Marquette Bldg., have been awarded the contract for making detailed drawings for the new Siegel & Cooper building to be erected at State and Madison Sts., requiring the use of over 2,500 tons of steel construction work.——Rosencranz & Mott are also making the shop drawings for the Butler warehouse to be built on West Water St., requiring about 1,500 tons of steel.

CHICAGO, ILL.—We are informed that the following bids were received by the supervising architect, Washington, D. C., May 25, for constructing stable, boiler house and laundry at the marine hospital, Chicago, Ill.; all bidders of Chicago: C. E. Carson, $34,433, 8 mos.; W. M. Crilly, $34,174, 8 mos.; E. Bowerman, $31,750; D. H. Hayes & Co., $32,830, 8 mos.; Adolph Anderson, $31,987, 7 mos.; William Navor Co., $33,894, 8 mos.; L. L. Leach & Son, $29,417, 8 mos.; Congress Construction Co., $32,851, 5 mos.; McEwen Building & Mfg. Co., $33,687, 6 mos.; H. Bierwieth & Co., $30,400, 90 days.

CHICAGO, ILL.—The Botsford-Jenks Co., of Port Huron, has the contract for erecting the new 1,500,000 bushel elevator to cost $300,000, for the McReynolds Elevator Co., South Chicago.

OSHKOSH, WIS.—Bids are asked by the regents of normal schools of Wisconsin until June 6 for erecting an addition to the normal school building at Oshkosh. A. E. Thompson, Pres.; William Waters, Arch., Oshkosh.

SPARTA, WIS.—Bids are asked until June 7 for erecting an almshouse. Plans are at the office of the county clerk. Chandler & Parks, Archs., Racine, Wis.

CHARLES CITY, IA.—Bids are asked until June 19 for erecting a high school building. S. G. Sloane, Secy. of School Bd.; Liebbe, Nourse & Rasmussen, Archs., Des Moines, Ia.

BLOOMING PRAIRIE, MINN.—Bids are asked until June 20 for erecting a school house, also for heating the same. M. M. Guthrie, Secy.; F. D. Orff, Arch., Minneapolis, Minn.

GLENVILLE, MINN.—Bids are asked until June 19 for erecting a 4-room school building here. O. M. Nelson, Secy. of School Bd.; K. W. Kinney, Arch., Austin, Minn.

GRANADA, MINN.—Bids are asked until June 8 for erecting a 2-story brick and stone syndicate and a 3-story bank building. O. J. Clark, Secy.; C. H. Patsche, Arch., Fairmont, Minn.

PELICAN RAPIDS, MINN.—Bids are asked by the board of education until June 6 for erecting a 2-story 4-room addition to the school building. J. P. Wallace, Pelican Rapids; Chas. S. Sedgwick, Arch., Minneapolis, Minn.

STAPLES, MINN.—Over 25 buildings in the business portion of Staples were destroyed by fire, May 26; estimated loss, $50,000; insurance, $20,000.

STILLWATER, MINN.—O. H. Olson has the contract for building the new county jail at Stillwater to cost $9,208.

HELENA, MONT.—Bids are asked by the supervising architect, Washington, D. C., until June 20, for the construction (except heating apparatus, elevator and electric wire conduits) of the U. S. public building at Helena.

LITTLE ROCK, ARK.—Bids are asked until June 3 for erecting an auditorium for the First M. E. Church. Frank W. Gibb, Arch., Reider Building, Little Rock.

CENTRAL CITY, COLO.—Lamont & Ballard, Central City, have been awarded the contract for erecting the new county court house in this city, at $21,757.

WATER-WORKS.

PLYMOUTH, N. H.—Surveys for enlarging the works recently bought by the city are being made.

CLINTON, MASS.—Bids are asked by the Metropolitan Water Board, 3 Mount Vernon St., Boston, until June 9 for stripping 3,250,000 cu. yds. of surface soil from 1,700 acres of the Wachusett reservoir; also until June 15 for preliminary excavation and masonry for the Wachusett dam, requiring 13,000 cu. yds. of earth and 4,000 cu. yds. of rock excavation, etc.; also until June 15 for building concrete core-walls at Spot Pond, Stoneham, as stated in our advertising columns. F. P. Stearns, Ch. Engr.; W. N. Davenport, Secy.

BRISTOL, CONN.—A. Alderson, New Britain, Conn., is reported as making surveys for extending the mains of the Bristol Water Co. to Forestville.

BALLSTON SPA, N. Y.—The taxpayers of this village on May 23 voted to borrow a sum not to exceed $50,000, for the purpose of acquiring an additional water supply, and the erection of a new stand-pipe.

CORFU, N. Y.—Efforts are being made to secure works and to construct a stand-pipe.

DUNDEE, N. Y.—Edwin L. Bailey has been granted a franchise to construct a system for fire protection in this village. A stand-pipe will be erected, and 1,000 ft. of pipe laid.

ELMIRA, N. Y.—The city attorney has submitted an opinion to the effect that the city cannot buy the works until special legislation is secured to make a change in the charter.

HEMPSTEAD (L. I.), N. Y.—We are informed that the Hempstead Water Co. is in the market for the purchase of 3,000 ft. of 4-in. cast-iron water pipe; also for tees, etc.

HIGHBRIDGE, N. J.—Bids are asked until June 5 for constructing a water-works system, to cost about $15,000. H. Latimer, Cy. Clk.; W. B. Rider, Engr., Highbridge.

HORNELLSVILLE, N. Y.—Governor Roosevelt has signed the bill allowing the municipal ownership of water-works in this city.

LOCKPORT, N. Y.—Dr. F. P. Vandenbergh, Pres. Crystal Springs Water Co., Buffalo, N. Y., has submitted a proposition to furnish the city with a new supply of water.

ROCHESTER, N. Y.—The council has voted to extend the water mains, at a cost of about $70,000.

SCHENECTADY, N. Y.—Charles Milliard & Son, Utica, N. Y., are reported to have been awarded the contract for furnishing over three miles of 4 to 16-in. water pipe. This pipe will be laid this year.

McKEESPORT, PA.—The question of improving the water supply is being considered.

PHILADELPHIA, PA.—Bids are asked until June 7 for furnishing a number of water filters. A. F. Hammond, Secy. Com. on Hygiene, Bd. of Education.

PRICEBURG, PA.—The Priceburg Water Co. was incorporated May 26, with a capital stock of $1,000, with $100 paid in, to construct a system in this village. A. H. Christy, Pres., Scranton, Pa.; Orlando S. Johnson and E. B. Sturges, Scranton; Jos. B. Dickson, and Jesse L. Eddy, of New York, are incorporators.

LOUISBURG, N. C.—It is reported that the committee, of which Wm. Bailey and J. M. Allen are members, wishes to secure estimates for works, and would like to correspond with engineers.

NEW CUMBERLAND, W. VA.—The New Cumberland Water and Gas Co. has been incorporated with a capital of $50,000 by W. Splain, Oil City, Pa.; G. B. Walmer, New Cumberland; J. G. Splain, W. S. Semple, W. H. Bulger, of Pittsburg, Pa.

WHEELING, W. VA.—The water board is making surveys for new mains in the 8th Ward to cost $15,000.

CHARLESTON, S. C.—Local papers state that plans for the new works are about completed and that bids for the construction will be asked in a few weeks.

WASHINGTON, GA.—This town has bought the plant of the Washington Water-Works Co., for $10,000.

GALLATIN, TENN.—We are informed that the bids received May 15 for building works, as advertised in Engineering News, were all rejected. The subject will come up again. Walter G. Kirkpatrick, Engr., Jackson, Miss.

BATON ROUGE, LA.—This city has voted to issue $35,000 in bonds for improving the works. Robt. A. Hart, Mayor.

JENNINGS, LA.—It is proposed to build works and an electric plant, according to reports.

GLOUSTER, O.—Bids are asked until June 7 for constructing a water-works system in this village, requiring 140 tons of 6-in. cast-iron pipe, bell and spigot; 91 tons of 3-in. cast-iron pipe, bell and spigot, etc.; 35 hydrants, 4-in. valve opening, etc. D. Antle, Village Clk.; J. A. Richards, Engr.

NAPPANEE, IND.—Bids are asked until June 15 for a steel tank with 75,000 gallons capacity; also for a steel water tower. M. S. Hoover, Town Clk.

GRAND RAPIDS, MICH.—S. M. Grey, Providence, R. I., and Allen Hazen, St. Paul Bldg, New York, are investigating sources for a new water supply. Address City Engineer Ames and Chairman Muir, of the committee.

HARTFORD, MICH.—Bids are asked until June 15 for the construction of a plant requiring 2¼ miles of cast-iron or riveted steel pipe, 1 ton special castings, 1 triplex power pump, 750,000 gallons in 24 hours; 1 triplex power pump, 500,000 gallons in 24 hours; 1 40-HP. gasoline engine, 1 25-HP. gasoline engine, 18 hydrants, 11 gate valves, stand-pipe 100×12 ft., or 70-ft. tower with 50,000 gallon tank, etc. F. M. Deane, Village Clk.; L. C. Colburn, Engr., Paw Paw, Mich.

WAYNE, MICH.—The people of this village are agitating the construction of a water-works and electric lighting system.

CHICAGO, ILL.—City Engineer Ericson has approved the plans for a new crib to replace the old Lake View crib. The new structure will cost $45,000, and will contain sufficient room in which to store provisions for the workmen employed in the crib during the winter.

CHICAGO, ILL.—Bids are asked until June 7 for constructing six internally-fired horizontal return tubular boilers, with automatic stokers, with coal-conveying machinery, coal storage bins, etc., at the Chicago Ave. pumping station. L. E. McGann, Comr. Pub. Wks.——The following bids were received May 18 for a steel discharge pipe for the north pumping station, etc.: August Krumholz (accepted), $447; Chicago Bridge & Iron Co., $845; Roenheld & Gallery, $472.

CUDAHY, WIS.—The question of building works to cost about $15,000 is being considered, according to reports.

RACINE, WIS.—It is announced that the Racine Water Co. awarded the contract May 24 to a Milwaukee contractor for the construction of a new reservoir in connection with its water-works system, thus doubling its present capacity; estimated cost, $25,000.

ARLINGTON, IA.—Bids will be received during this month, according to reports, for constructing a system to cost about $5,000. Jackson & Moss, Engrs., Des Moines, Ia.

BURLINGTON, IA.—The question of purchasing the works is being considered.

BLOOMING PRAIRIE, MINN.—Bids are asked until June 12 for the construction of a system in this village. M. M. Guthrie, Village Pres.; Fairbanks, Morse & Co., Engrs., St. Paul, Minn.

MINNESOTA, MINN.—This place is reported to have voted against the proposition to issue $5,000 in bonds for works and an electric plant.

PINE ISLAND, MINN.—The only bid received on May 22 for constructing the proposed water-works plant at this place was that of Fairbanks, Morse & Co., St. Paul, Minn., at $10,500. Bids will be called for again.

PRINCETON, MINN.—Bids are asked until June 9 for constructing a water-works and electric light plant, including a pipe system, a brick power station, a steam power plant, a brick water tower and an electric lighting plant. J. W. Hartman, Village Recorder; C. F. Loweth, Engr., 94 East 4th St., St. Paul, Minn.

NORTH BEND, NEB.—Bids are asked until June 8 for constructing a system for this city, requiring one stand-pipe, 10 × 70 ft., and foundation; one 450,000-gallon pump, one 40-in. × 12-ft. steam boiler set, 2,576 ft. of 6-in. cast-iron water pipe, 3,556 ft. of 4-in. cast-iron water pipe, four 6-in. gate valves and boxes, one 6-in. tubular well, one boiler house and pump, etc.; also for a 20-HP. gasoline engine, and a triplex power pump, 450,000 gallons capacity in 24 hours. J. C. Newson, Cy. Clk.; J. W. Andrews, Engr., Fremont, Neb.

MANKATO, KAN.—W. W. Cook, Junction City, Kan., is reported to have been awarded the contract for constructing the works.

PARIS HILL, MO.—Reports state that the capital stock of the Paris Hill Water Co. is about secured and that the proposed system will soon be built.

BARINGCROSS, ARK.—The Baringcross Water Co. has been incorporated with a capital stock of $10,000 by F. C. Amsbury, Pres. Home Water Co., Little Rock, Ark.

BUTTE CITY, MONT.—Press reports state the Butte Water Co. has been placed in the hands of a receiver.

CHEHALIS, WASH.—The property of the Chehalis Water Co. has been sold to a new company, in which F. S. Morris, of Morris & Whitehead, Portland, Ore., are interested. It is stated that the works will be improved and extended.

AMITY, ORE.—The question of building a pipe line to cost about $1,000 is being considered.

BAKER CITY, ORE.—This place voted May 15 against issuing $80,000 in bonds for building gravity works and for improving the present plant.

GOLD HILL, ORE.—The city board has awarded the contract for constructing a water-works system to J. W. Hays, at $3,700, and the plant has been leased to him for 30 years.

AZUSA, CAL.—The question of securing a better water supply is being considered.

LONG BEACH, CAL.—The Bouton Water Co. has applied for a franchise to put in works.

PRESCOTT, ARIZ.—Geo. W. Sturtevant, Jr., has been awarded the contract for repairing the reservoir, constructing the proposed sewer system and laying pipe, also for building a dam across Granite Creek for this city, at $53,550.

STIRLING, ONT.—J. S. Black, Village Clk., writes us that the following bids were received May 23 for constructing works; all of Toronto, Ont., except Walter Alford, of Belleville, Ont.: Clarke & Connolly, $20,000; McQuillan & Co., $19,100; Edward I. Hartuett, $18,387, and Walter Alford, $19,000.

NANAIMO, B. C.—S. Gough writes us that the city is taking steps to acquire the works. If the city comes into possession of the works a number of important improvements will be made.

IRRIGATION.

WORMSER CITY, MONT.—Bids are asked until July 15, postponed from June 1, for the construction of two irrigation canal systems, one upon the Big Timber Creek, in Sweet Grass County, the other upon the Boulder River, in Sweet Grass and Park Counties, as stated in our advertising columns. The specifications are on file at the offices of Engineering News, in New York and Chicago. A. Wormser, Pres., Holland Irrigation Canal Co.

TURTLE BAYOU, TEX.—Reports state that the Trinity Rice Land and Irrigation Co. will construct an overland canal for the purpose of irrigating 15,000 acres of rice lands; the canal will have a pumping capacity of 100,000 gallons; estimated cost $140,000. Address W. C. Moore, 505½ Main St., Houston, Tex.

PRICE, UTAH.—It is reported that the Western Utah Irrigation Co. is to put 20,000 acres of land under water at a cost of $50,000.

SEWERAGE.

BETHEL, ME.—It is reported that the question of constructing a system is being considered.

WATERBURY, VT.—Reports state that H. R. Nash, Providence, R. I., has been engaged to make a survey and give an estimate of the cost for the proposed system.

FRANKLIN, MASS.—John W. Ellis, Woonsocket, R. I., writes us that the contract and specifications are in the hands of the selectmen, and that bids will be soon opened; also, that a report for a general system for the town will be presented later.

SALEM, MASS.—Reports state that the contemplated extension of the Derby St. Sewer and the main sewer in South Salem involves the expenditure of $40,000.

PAWTUCKET, R. I.—Bids are asked until June 3 for building abutments, retaining walls and sewers on Main St. Loren G. Ladd, Comr. Pub. Wks.

NEW HAVEN, CONN.—Bids are asked until June 5 for constructing sewers in four streets. C. W. Kelly, Cy. Engr.

WATERBURY, CONN.—Bids are asked until June 6 for constructing sewers and appurtenances in 12 streets. R. A. Cairns, Cy. Engr.

NIAGARA FALLS, N. Y.—Reports state that the only bid received for completing the sewer work on Chasm Ave. was from Moore & Cullston, of Buffalo, at about $6,000.

NEW YORK, N. Y.—Bids are asked by the Aqueduct Commissioners until June 6 for building overflow and blow-off sewers, water-pipes and appurtenances in connection with the Jerome Park Reservoir of the new Croton Aqueduct, Borough of the Bronx.

SYRACUSE, N. Y.—Reports state that the contract for the construction of the Butternut St. sewer has been awarded to F. J. Baker at $44,227.

YONKERS, N. Y.—Bids are asked until June 12 for building a sewer in Parker St. from St. Joseph to Vineyard Ave. John Pagan, Jr., Cy. Clk.

ALLEGHENY, PA.—Bids are asked until June 5 for constructing sewers in eleven streets, and for paving in sertain streets. Robt. McAfee, Dir. Pub. Wks.

McKEES ROCK, PA.—It is stated that the Council has voted to float a bond issue of $150,000 for street sewer improvements.

POTTSVILLE, PA.—Bids are asked by the council of Tamaqua Borough until June 7 for the construction of a double-strength vitrified pipe sewer on two streets. J.W. Ditchey, Chn. St. Com.

TUNKHANNOCK, PA.—C. W. Knight, Pres. Stanwix Engineering Co., of Rome, N. Y., will consult with the committee in relation to the proposed sewer extension.

WILKES-BARRE, PA.—Bids are asked until June 5 for constructing a public sewer on Luzerne St. to Market St. via Bowman Spring Run, Stanton and Empire Sts. Bids are asked until June 6 for constructing sewers as follows: On Main St. from Parrish St. to city line; on McLean St. from the summit of sewer grade to Arch St., on Arch St. from McLean St. to a point halfway between Poplar and Spring Sts.; also for the necessary vitrified sewer pipe for said work. Frank Deitrick, Cy. Clk.

CLARKSBURG, W. VA.—Reports state that the question of bonding the city for $35,000 for sewerage purposes is being voted upon.

LOUISBURG, N. C.—It is reported that this city is about to establish water-works, electric plant and sewerage system, and invites correspondence as to same. J. M. Allen, William Barley, Committee.

VALDOSTA, GA.—Reports state that it has been voted to issue $35,000 in bonds for sewerage purposes.

BATON ROUGE, LA.—It is stated that the city has voted to issue bonds to the extent of $55,000 for draining and sewerage.

OWENSBORO, KY.—J. S. Stirman, Cy. Clk., writes us that the plans have not as yet been adopted for the proposed system. H. M. Talbott, Cy. Engr.

EAST CLEVELAND, O.—Bids are asked until June 3 for constructing brick sewers in two streets, and until June 17 for the construction of sewers in several streets. H. B. Chapman, Village Clk.

EAST LIVERPOOL, O.—Reports state that the Board of Health has decided to take immediate action in the matter of constructing a system.

TOLEDO, O.—Bids are asked until June 19 for the construction of a cylindrical pipe sewer with a double strength shell in five streets. Wm. O. Halst, Cy. Clk.

TEKONSHA, MICH.—It is stated that the construction of a system is proposed.

CHICAGO, ILL.—Bids are asked until June 7 for furnishing and delivering sewer pipe, also for a certain amount of iron manhole and catchbasin covers. L. E. McGann, Comr. Pub. Wks.

KANKAKEE, ILL.—Reports state that the construction of a sewer to cost $2,500 is being considered.

PEORIA, ILL.—It is reported that Joseph Elder, Comr. Pub. Wks., has been authorized to ask for bids for the construction of a system which is to be laid under Perry St. between Cornhill and Abingdon Sts.

HIBBING, MINN.—The Mayor informs us that the preliminary surveys have been made and estimates given for the system which will be built this summer. It is proposed to construct 8,000 ft. of 10-in. pipe with an average cut of 10 ft.; estimated cost $8,000.

COLUMBUS, NEB.—The council has granted a franchise to the Columbus East End Sewer Co. for the construction of a system on the east side.

GRAND ISLAND, NEB.—Arnold C. Koenig, Cy. Engr., informs us that the council has decided upon the following sewer extensions for which plans and specifications are being prepared: 1,400 ft. extension of district sewer No. 2 (8-in. pipe); 1,000 ft. in district No. 5 (8-in. pipe), and about 200 ft. extension of the Vine St. Main sewer (15-in. pipe).

HILLSBORO, N. DAK.—Bids are asked by the council until June 6 for the construction of a sewer, 1,140 ft. long with 10-in. pipe.

TOPEKA, KAN.—Bids are asked until June 5 for the construction of a system. J. H. Squires, Cy. Clk.

LEXINGTON, MO.—Reports state that the council has appropriated $2,500 to start a sewerage system.

RED BLUFF, CAL.—It is reported that it has been voted to issue $35,000 sewer bonds.

NANAIMO, B. C.—S. Gough writes us that a plan for a system is being prepared but that nothing definite has been settled upon.

WINNIPEG, MAN.—It is reported that the contract for sewers on Arkins St. has been let to Dobson & Jackson at $4,623 and to W. F. Lee for the construction of sewer on Main St. and on St. John Ave. at $6,318 and $21,399 respectively.

STREETS AND ROADS

BANGOR, ME.—Reports state that the question of purchasing a stone crusher is being considered.

BOSTON, MASS.—Reports state that it is proposed to construct a boulevard from Nantasket Beach to Squantum Head to cost about $2,000,000. The following bids have been received for paving Summer St. extension: C. E. Trumbell, $19,494; James Lahey & Co., $19,583; J. B. O'Rourke, $20,842; Jones & Meehan, $20,845; H. Earl & Co., $22,604; Daniel E. Lynch, $25,221; Patrick McGovern, $17,900 (accepted).

BROCKTON, MASS.—It is reported that the board of aldermen has authorized the loan of $50,000 for permanent street improvements.

SOMERVILLE, MASS.—It is stated that City Engineer Bailey is preparing plans for the new Powder House boulevard, for which $10,000 has been appropriated.

HARTFORD, CONN.—Reports state that resolutions have been adopted for grading two streets and for establishing four streets. Henry F. Smith, Cy. Clk.

BUFFALO, N. Y.—Bids are asked by the Department of Public Works until June 7 for paving Carrol St. from Larkin to Van Rensselaer St. R. G. Parsons, Secy. The following are the lowest bids received: Repaving Spruce St., German Rock Asphalt Co., $8,690; for surfacing Spring St., $5,397, from the same company.

NEWBURGH, N. Y.—It is reported that an asphalt pavement is to be laid on Liberty St. from Broadway to Renwick St. at a cost of about $19,000.

ROCHESTER, N. Y.—Reports state that the council has passed ordinances aggregating $269,000 for paving. The following bids for paving have been received: For Child St. asphalt pavement, Whitmore, Rauber & Vicinus, $18,-362; Warren-Scharf Asphalt Paving Co., $18,850; Rochester Vulcanite Pavement Co., $18,266; Rock Asphalt Pavement Co., $18,883. For Irving Place asphalt pavement, Vulcanite Co., $3,375; Warren-Scharf Co., $3,565; Rock Co., $3,518. For Bartlett St. cement walks, Elmer L. Oliver, $3,766; H. B. Hooker, $3,300; John Regan, $3,-582; Whitmore, Rauber & Vicinus, $3,411; F. A. Brotsch, $3,510; T. Holahan, $3,986. For Ave. C cement walks E. L. Oliver, $1,253; H. B. Hooker, $1,100; T. Holahan, $1,332; John Regan, $1,225; Whitmore, Rauber & Vicinus, $1,135. For Thrush St. medina block pavement, Whitmore, Rauber & Vicinus, $23,063. Contracts have been awarded as follows: For paving North Clinton St. with medina block to Brayer & Albaugh at $30,065; for paving Caledonia Ave. with medina block, to Lauer & Hagaman at $17,541.

SYRACUSE, N. Y.—The question of paving Milton Ave. is being considered; estimated cost, $70,000.

TROY, N. Y.—Bids are asked until June 2 for brick paving on three streets, according to reports. E. Ogden Ross, Secy. Bd of Control.

WHITE PLAINS, N. Y.—Bids are asked until June 5 for $7,760 sq. yds. of brick pavement. Wm. B. Sutherland, Village Clk.

CAMDEN, N. J.—Bids are asked by the street committee until June 12 for asphalt paving on a number of streets, as stated in our advertising columns. C. H. Ellis, Jr., Chn.

JERSEY CITY, N. J.—Reports state that the contract for asphalt paving Blum St., Union Hill, has been awarded to the Mexican Asphalt Co. at $17,906.

NEWARK, N. J.—Bids are asked by the committee on roads until June 5 for delivering broken stone on nine streets. Wallace Oughletree, Chn.

PASSAIC, N. J.—Bids are asked until June 6 for grading and macadamizing six streets in Acquakanonk township. Allison J. Van Brunt, Township Clk.——Bids are asked until June 9 for delivering broken stone and screenings on 25 roads. Geo. W. Botbyl, Clk.

PATERSON, N. J.—Bids are asked until June 5 for asphalt paving in four streets. Thomas McLean, Cy. Street Comr.

FRANKLIN, PA.—Bids are asked by the commissioners of Sugar Creek township until June 3 for the paving of a 12-ft. roadway and laying a sidewalk on the Dempsey town road for a distance of about 2,500 ft. from the limits of Franklin, Pa. T. L. Kennerdell, Cy. Engr.

GLOUCESTER, PA.—Reports state that there is talk of bonding this city for $100,000 for street paving.

OAKMONT, PA.—Bids are asked until June 1 for grading nine streets in Oakmont. Edeburn Cooper & Co., Borough Engrs., Pittsburg, Pa.

PITTSBURG, PA.—Ordinances have been passed for the grading, paving and curbing of five streets. E. M. Bigelow, Com. Pub. Wks.

WASHINGTON, PA.—Geo. D. Jenkins, Borough Engr., writes us that there is considerable paving to be done here.

BIRMINGHAM, ALA.—An ordinance has been passed providing for the grading, macadamizing and curbing of 11th Ave. and 21st St., estimated cost, $6,500. H. D. Wood, Cy. Clk.

BATON ROUGE, LA.—Reports state that the city has voted to issue $40,000 in bonds for paving.

KINGSTON, TENN.—Bids are asked by P. W. Evans, Chn. Pike Com., until June 3 for a pike road about five miles in length.

LOUISVILLE, KY.—It is reported that the board of public works has $44,500 to spend for street work.

OWENSBORO, KY.—W. P. Small, Mayor, writes us that it is contemplated to improve about 30 squares.

CALIFORNIA, O.—Reports state that the contract for macadamizing Columbia and New Richmond Turnpike will be awarded to E. W. Boyce, at $35,476.

CINCINNATI, O.—It is reported that the lowest bid for the improvement of Delta Ave. has been received from Ruebel Bros., at $29,600.

CRESTLINE, O.—Bids are asked until June 3 for furnishing material and constructing 2 miles of road in Jackson township. S. E. Foust, Clk. Jackson township.

DAYTON, O.—Bids are asked until June 5 for paving 725 sq. yds. Robt. H. Ferguson, Cy. Comptroller.

FINDLAY, O.—An ordinance has been passed providing for the improvement of Hancock St., from Main St. to Washington Ave. A. W. Ray, Clk.

TOLEDO, O.—Bids are asked until June 12 for furnishing the necessary labor and material for paving in Ashland and Norwood Aves.——Ordinances have been passed for the improvement of three streets. Wm. O. Holst, Cy. Clk.

ALEXANDRIA, IND.—Bids are asked until June 12 for brick paving in three streets. J. S. Humphrey, Cy. Engr.

ANDERSON, IND.—Bids are asked until June 9 for gravel roads. J. A. Mitchell, Supt., Noblesville, Ind.

BRAZIL, IND.—Bids are asked until June 13 for brick paving in South Walnut St. and North Forest Ave. D. E. Sherfey, Cy. Engr.

ELKHART, IND.—Bids are asked until June 14 for grading and paving Pigeon St. with asphalt. D. F. Cordrey, Cy. Engr.

INDIANAPOLIS, IND.—Bids are asked by the commissioners of Parke county until June 8 for the improvement of nine highways in Penn township. S. A. Pike, Audr.—— It is proposed to open and extend Cooper St., from Fern Way to Lawrence St.

MONTICELLO, IND.—Bids are asked by the board of commissioners until June 7 for the construction of the Princeton township macadam roads; estimated cost, $61,-177. M. J. Holtzman, Audr.

NOBLESVILLE, IND.—Bids are asked until June 5 for a gravel road. J. A. Mitchell, Engr.

COLDWATER, MICH.—Bids are asked until June 6 for furnishing all material and constructing a vitrified brick pavement on Chicago and Monroe Sts. P. H. Sweeney, Cy. Clk.

MANISTEE, MICH.—Bids are asked until June 5 for furnishing 2,500 cu. yds. of crushed stones. Henry Taylor, Cy. Clk.

CHICAGO, ILL.—Reports state that ordinances have been passed providing for $500,000 of paving; it is proposed to use brick, asphalt and macadam. L. E. McGann, Comr. Pub. Wks.

OTTUMWA, IA.—Bids are asked until June 5 for the removal of 5,000 cu. yds. of earth from East Second St. and Iowa Ave. T. F. Keefe, Chn. St. Com.

MINNEAPOLIS, MINN.—Reports state that resolutions have been adopted for macadamizing Washington Ave. L. A. Lydiard, Cy. Clk.

ST. PAUL, MINN.—Reports state that the following bids have been received for asphalt paving: East Seventh St: Fielding & Shepley, $18,590 (accepted); Canney & Howe, $18,750; John Lindquist, $18,960, and Nic Feyen, $19,400; Minnesota St., Fielding & Shepley, $11,965 (accepted); Canney & Howe, $12,500; John Lindquist, $12,840; Nic Feyen, $13,500.

KANSAS CITY, MO.—Bids are asked until June 3 for constructing an asphalt pavement in seven streets; for constructing brick pavement in four streets; for constructing stone sidewalks in seven streets, and for constructing curbing in four streets. Henry A. Wise, Cy. Engr.

ST. LOUIS, MO.—Bids are asked by the Board of Public Improvements until June 16 for the improvement of eight alleys; for vitrified brick paving in seven streets, and for granitoid paving in one street.

DENVER, COLO.—Reports state that $20,000 is to be expended for asphalt paving and granite curbing.

RED BLUFF, CAL.—Bids are asked by the supervisors of Tehama county until June 7 for the construction of 2¼ miles of the Hatah road.

TORONTO, ONT.—Bids are asked until June 5 for asphalt pavement in three streets; for cedar block pavement in one street, and for brick pavement in two streets: John Shaw, Mayor.——It is proposed to spend $12,000 in cedar block and macadam paving. John Blevins, Cy. Clk.

TORONTO, ONT.—Reports state that contracts have been awarded as follows: For asphalt paving Carlton St., Warren-Scharf Co., at $13,378; Front St., to Constructing & Paving Co., at $12,050.

MANUFACTURING PLANTS.

FAIRFIELD, ME.—Reports state that the Somerset & Kennebec Co. will erect a paper mill in this city; estimated cost, $200,000.

BATAVIA, N. Y.—It is reported that the Johnston Harvester Co. is to erect a three-story brick building for the manufacture of knives used in grain cutting machines.

SAUQUOIT, N. Y.—Reports state that the Lewis Knitting Co., of New Hartford, will install a knitting plant in the old silk mill at Sauquoit.

PATERSON, N. J.—The Nightingale Silk Mill, at North First and Halpine Sts., was destroyed by fire May 25; reported loss, $50,000.

PHILADELPHIA, PA.—Bids are being asked for erecting a leather factory building for J. P. Matthieu & Co. at Westmoreland, Ontario, 9th and 10th Sts., to cost $100,000; complete power plants will be installed. Hales & Ballinger, 1200 Chestnut St., Archs.

PITTSBURG, PA.—Reports state that Jones & Laughlins are having plans drawn for the remodeling of their Bessemer department, and intend adding two 12-ton converters to their plant.

LINCOLNTON, N. C.—Reports state that a $200,000 mill will be built in this city at an early date.

ROME, GA.—It is reported that the Rome Fertilizer Works have let the contracts for the erection of a large addition to its plant.

CLEVELAND, O.—The Ohio Sash & Door Co.'s plant was destroyed by fire May 26. The lumber piles of the Fisher & Wilson Co. were also destroyed; total estimated loss, $100,000.

PLEASANT PRAIRIE, WIS.—The Laflin & Rand Powder Co. has decided to enlarge its plant by the erection of about 40 buildings; estimated cost $65,000.

BOZEMAN, MONT.—Reports state that a smokless powder factory will be erected here, in which Ansel Moffat, Indianapolis, Ind., is interested.

SANTA FE, N. MEX.—It is reported that a beet sugar factory, to cost $500,000, is to be erected here. Moritz Weinrick, St. Louis, Mo., is interested.

GAS PLANTS.

BUFFALO, N. Y.—Bids are asked by the department of public works until June 9 for a site for a gas plant. R. G. Parsons, Secy.

NEW YORK, N. Y.—Bids are asked by the department of public charities until June 12 for furnishing gas at Bellevue and Emergency hospitals during the year 1899.

PELHAM, N. Y.—Reports state that hearings on the applications of the new Westchester Gas & Coke Co. are to be held as follows: Pelham Manor, June 1; Village of Pelham, June 14, and Mount Vernon, June 6.

CARLISLE, PA.—Reports state that the erection of a new gas plant is being considered by the gas and water company.

TIFFIN, O.—It is reported that Kerlin Bros. have struck gas on a farm here yielding over 500,000 ft. a day.

TOLEDO, O.—Reports state that the city clerk has been authorized to advertise for bids for operating the Toledo gas plant. This is a plan of Mayor Jones. The plant is valued at $1,500,000 and has never been a paying venture.

SANTA ROSA, CAL.—It is stated that the council has let a contract for the erection of a gas plant at the pumping station of the water-works.

NEW COMPANIES.—Black Diamond Oil Co., Hanford, Cal., $32,000; W. Walker, J. Welcher, W. F. Harrison, of Hanford.

Occidental Gas Improvement Co., San Francisco, Cal., $200,000; Robert S. Lawrence, George Rhoner, A. E. Brooke Ridley, of San Francisco.

Universal Fuel Gas Co., Hasbrouck Heights, N. J., $100,000; Robert H. Laird, Hasbrouck Heights, N. J.; James W. Chisholm, San Francisco, Cal.; James R. Chisholm, New York City.

Empire State Natural Gas Co., Buffalo, N. Y., $12,000; Charles O'Day, Pittsburg, Pa., and E. A. Macpherson and George W. Sloan, Buffalo, N. Y.

Santa Ana Oil Co., Santa Ana, Cal., $50,000; M. M. Crookshank, John Cubbon, R. F. Chilton, Santa Ana.

Newark Gas Light & Fuel Co., Newark, N. Y., $50,000; E. H. Jenkins, W. D. Ingham, C. L. Ingham, Buffalo.

MISCELLANEOUS CONTRACTS.

WHARF.—Philadelphia, Pa.—Bids are asked by the Department of Public Safety until June 1 for repairs to Bridge St. wharf. Abraham L. English, Dir.

DREDGING.—Tampa, Fla.—Bids are asked until June 29 for dredging in Tampa Bay, Fla., as stated in our advertising columns. Capt. Henry Jervey, U. S. Engr.

RIVER IMPROVEMENT.—Houston, Minn.—Bids are asked by the Supervisors until June 3 for removing obstructions to channel of Root River at Money Creek bridge.

GENERATING SETS.—Washington, D. C.—Bids are asked until June 6 for furnishing four generating sets and spare parts. A. S. Kenney, Paymaster General, U. S. A.

TUNNEL.—Wilkes-Barre, Pa.—Bids are asked until June 1 for driving a 105-ft. tunnel, 12×7 ft., for the Lehigh & Wilkes-Barre Coal Co. W. J. Richards, Gen. Supt.

DOCKS.—Havana, Cuba.—Reports state that Mayor T. H. Bliss, Collector of Customs, intends to build two large docks with double stories, electric cranes and electric railroad.

DREDGING.—Baltimore, Md.—Reports state that the harbor board has decided to extend the 30-ft. ship channel on either side of the basin up nearer to the head of the basin.

EXCAVATION.—Buffalo, N. Y.—Bids are asked until June 26 for harbor excavation at Erie, Pa., as stated in our advertising columns. Maj. T. W. Symons, U. S. Engrs.

TAINTER GATES.—St. Paul, Minn.—Bids are asked until June 27 for furnishing five steel tainter gates, as stated in our advertising columns. Major Frederic V. Abbot, U. S. Engrs.

PIER.—Grand Rapids, Mich.—Reports state that the contract for rebuilding the pier at St. Joseph Harbor has been awarded to John M. Allmendinger, Benton Harbor, Mich., at $17,228.

PORTLAND CEMENT.—Portland, Me.—Bids are asked until June 8 for American Portland cement and sand for Cushing Island, Me., as stated in our advertising columns. Maj. S. W. Roessler, U. S. Engrs.

DREDGING, Boston, Mass.—Bids are asked until June 27 for dredging in Chelsea Creek, Weymouth River and Town River, Mass., as stated in our advertising columns. Col. Chas. R. Suter, U. S. Engrs.

RUBBLE STONE.—Boston, Mass.—Bids are asked until June 26 for delivering of rubble stone in jetties at Newburyport Harbor, as stated in our advertising columns. Col. Chas. R. Suter, U. S. Engrs.

BREAKWATER.—Cleveland, O.—Bids are asked until June 12 for constructing part of west breakwater at Conneaut Harbor, O., as stated in our advertising columns. Col. Jared A. Smith, U. S. Engrs.

DOCKS.—Providence, R. I.—It is reported that $300,000 has been asked by the Board of Aldermen for the construction of docks along the old West side of the bay, north of the old revolutionary forts.

PARK IMPROVEMENTS.—Detroit, Mich.—Reports state that a bill has been passed allowing the people of Detroit to vote this fall on the question of issuing $150,000 bonds for the improvement of Belle Isle park.

DREDGING.—Boston, Mass.—Bids are asked until June 28 for dredging in Potow River, Essex River, Manchester Harbor and Chatham Harbor, Mass., as stated in our advertising columns. Col. Chas. R. Suter, U. S. Engrs.

AREAS, DRAINAGE, ETC.—Washington, D. C.—Bids are asked by the Department of the Interior until June 10 for building areas, drainage, etc., at the U. S. Pension Building, Washington, D. C. E. A. Hitchcock, Secy.

REVETMENTS.—Duluth, Minn.—Bids are asked until July 1 for building pile and timber revetments for ship canals across Koweenaw Point, Mich., as stated in our advertising columns. Maj. Clinton B. Sears, U. S. Engrs.

TRAP ROCK QUARRY.—East Haven, Conn.—Bids are asked until June 22 for the lease until Jan. 1, 1906, of the plant and diabase trap rock quarry of the Tide Water Trap Rock Co., East Haven; deposit, $500, as stated in our advertising columns. F. P. Johnson, Secy. and Treas.

RANDOM STONE.—Key West, Fla.—Bids are asked until June 29 for furnishing and delivering in place upon jetty at the northwest entrance to Key West Harbor about 15,-000 tons of random stone, as stated in our advertising columns. Capt. C. H. McKinstry, U. S. Engrs., St. Augustine, Fla.

CROSS-DAM.—Knoxville, Tenn.—Reports state that the Government is considering the question of improving the Tennessee River from Knoxville to Paducah, Ky. Maj. Kingman, U. S. Engrs., is said to favor the idea of building two cross-dams four miles apart, one 1,300 ft. long and 17 ft. high, and the other 1,700 ft. long and 20 ft. high, estimated cost $2,175,000.

CONTRACT PRICES.

BRIDGE WORK.—Albany, N. Y.—We are informed that the state superintendent of public works, Albany, has awarded the following contracts for repairing and constructing bridges, as advertised in Engineering News: Gillette, Hoyt & Gillette, Rochester, N. Y., for completing the bridge over the inlet to Otisco Lake in Onondaga county, grubbing and clearing, lump sum, $1; hailing and draining, lump sum, $1; 600 cu. yds. excavation, per cu. yd., 28 cts.; 10,000 cu. yds. embankment, 28 cts.; 2,000 cu. yds. lining, 28 cts.; 1,700 cu. yds. slope wall, $1.50; 18,-000 ft. B. M. hemlock, per M. F. B. M., $16; 9,500 ft. B. M. Norway pine, $40; 350 number fence posts, each 50 cts.; 500 lbs. spikes and nails, lb., 4 cts.; $6,943. Repairing bridge at the foot of Liberty St., Penn Yan, Wm. I. Marsen, Geneva, N. Y.: Removing old planking, lump sum, $20; 25 cu. yds. excavation of earth, per cu. yd., 28 cts.; 20 cu. yds. excavation old masonry, per cu. yd., 65 cts.;

20 cu. yds. lining, per cu. yd., $1; 6,000 ft. B. M. white oak timber and plank, per M. F. B. M., $32; 4,000 ft. B. M. white pine timber and plank, per M. F. B. M., $25; 4,000 ft. B. M. hemlock timber and plank, per M. F. B. M., $17; 20 cu. yds. rubble masonry (including coping), per cu. yd. $5; 23,000 lbs. wrought iron and steel, per lb., 3 cts.; 500 lbs. spikes and nails, per lb., 35 cts; $1,237. Deduct materials furnished by the state: 1,000 ft. B. M. white oak timber and plant, $25.00; 2,000 ft. B. M. white pine timber and plank, $15.00; $55.00; $1,182. Governing the removal and the construction of a wrought iron bridge over the Erie Canal at Tonawanda Creek, known as the New Home Bridge, between Pendleton and Pickard's Bridge, Erie and Niagara counties, with the abutments and approaches: Hilton Bridge Co., Albany, N. Y.: Bailing and draining, lump sum, $50; excavating foundations of old pier, lump sum, $350; taking down old superstructure, lump sum, $200; 700 cu. yds. excavation of earth, 40 cts.; 340 cu. yds. excavation old masonry, 75 cts.; 75 yds. embankment, 40 cts.; 166 yds. bridge abutment masonry, $8.50; 20 yds. coping bridge abutment masonry, $18; 36 yds. foundation masonry, $6; 6,500 ft. B. M. white oak timber and plank, M. F. B. M., $27; 3,120 lin. ft. white oak piles delivered and driven, lin. ft. 25 cts.; 800 lbs. bolts, spikes and nails, lb., 3 cts.; superstructure, complete, including all steel work, castings and attachments, lump sum, $6,600; $10,732. Deduct materials furnished by the state: 60 cu yds. stone for backing, at $1.50, $90; $10,642. Lift bridge at Peterboro St., Canastota, N. Y.: Havana Bridge Works, Montana Falls, N. Y.: Bailing and draining, lump sum, $50; 2,000 cu. yds. excavation of earth, yd., 32 cts.; 240 yds. excavation masonry, yd., 50 cts.; 150 yds. lining, yd., $1; 15 yds. rubble masonry, yd., $4; 50 yds. vertical and retaining walls, yd., $4.75; 10 yds. cut stone bridge abutment coping, yd., $4; 60 yds. Portland cement concrete, $5.40; 390 sq. ft. Portland cement concrete sidewalk, ft., 16 cts.; 60 lin. ft. curbing, set, lin. ft., 70 cts.; 1,000 F. B. M. hemlock, M. F. B. M., $18; 7,500 lbs. 6-in. cast iron pipe, lb., 2 cts.; 80 lin. ft. 3-in. wrought iron pipe, lb., 40 cts.; 2 catch basins, complete, each $50; 60 lin. ft. 8-in. vitrified pipe, laid, per lin. ft., 12 cts.; removing old superstructure, lump sum, $150; superstructure, complete, lump sum, $13,485; $15,768; Deduct materials furnished by the state: 50 cu. yds. vertical wall and backing stone, $1.50, $75; $15,693.

GUTTERS.—Minneapolis, Minn.—The following bids were received May 13, 1899, for laying a 10-in. combined curb and gutter: (1) being cement in sacks; (2) cement in barrels; Portland Stone Co., (1) 37½ cts.; (2) 39¼ cts. a lin. ft.; Standard Stone Sidewalk Co., (1) 38 cts.; (2) 41 cts.; O. M. Ostlund, (1) 37 cts.; Peterson Bros. & Engwall, (1) 36½ cts. The Standard Stone Sidewalk Co. submitted the following bid for furnishing an artificial combined curb and gutter: Crushed granite and Portland cement, packed in wooden barrels, a lin. ft., 54 cts; crushed granite and Portland cement, packed in cloth bags, a lin. ft., 51 cts.; sand and Portland cement, packed in wooden barrels, a lin. ft., 41 cts.; sand and Portland cement, packed in cloth bags, a lin. ft., 38 cts. The following bids were also received for about 1,300 sq. yds. of brick paving on 6-in. concrete foundation: Fagin Bros., $1.70; Canney & Howe, $1.63 a yd.

DREDGING.—New York, N. Y.—The following bids for dredging 18,200 cu. yds. of mud in Gowanus Canal, Brooklyn, from bulkhead at Douglass St. to 4th St. Basin, and from Garnett St. to Hamilton Ave., were received by the department of sewers on May 24, 1899, all bidders of New York: J. R. Steers, 1 Broadway, 20 cts. a cu. yd.; Henry Du Bois' Sons Co., 119 South St., 23 cts.; Du Bois Bros. Dredging Co., 19 Whitehall St., 35 cts.

PORTLAND CEMENT.—Louisville, Ky.—Capt. Geo. A. Zinn, U. S. Engr., informs us that the following bids were received May 22, 1899, for furnishing 4,755 bbls. of Portland cement: Lehigh Portland Cement Co., Allentown, Pa., $2.60 a bbl.; Atlas Cement Co., 143 Liberty St. New York, $2.83; Commercial Wood & Cement Co., Philadelphia, Pa., $2.58.

SEWER WORK AND MATERIALS.—Honolulu, Hawaiian Islands.—The following bids were received by Jas. A. King, Minister of the Interior, Honolulu, April 20, for furnishing the following materials, and for constructing sewers, as advertised in Engineering News, Feb. 23 and March 2: Rudolph Hering, Engr., 100 William St., New York; W. E. Rowell, Supt. of Pub. Wks.: Steel pipe outfall sewer, 24-in., with flexible joints, about 2,200 ft.—P. F. Demdon, San Francisco, $5.70 a ft.: Risdon Iron Works, San Francisco, $5.50, awarded contract; Francis Smith & Co., San Francisco, $4.80, part of work only.

Other work, with itemized bids, are as follows:

Manhole Covers and Dirt Pails.

Bidder.	Manhole covers, 180, a lb.	Dirt pails.180 each.
Thompson C. Gill & Co., Philadelphia	$0.116	.....
E. W. Tucker & Co., San Francisco..	.10	$6.00
P. F. Dundon, San Francisco Irn. Wks.	.0595	9.90
Catton, Neill & Co., Honolulu.....	.05	3.25
Risdon Iron & Locomotive Works....	.0448	2.40*
Phoenix Foundry, Oakland, Cal.....	.03	3.00
Metropolitan Fdry Co., San Francisco	.029	3.00
Wilson & Whitehouse, Honolulu.....	.02875	.....
Sessions Fdry Co., Bristol, Conn.....	.0284*	3.30

*Awarded contract. The covers to be delivered June 1.

Sluice Gates, Tide Gates and Flush Gates.

Items.		Coffin Valve Co., Neponset, Mass.	Ludlow Valve Mfg.Co., Troy, N. Y.	J. Stone & Co., London, Eng.	*Adams & Co., York, Eng.
Sluice gates	2 each	$190.00	$181.00	$156.80	$137.20
Trip flush gates:					
28-in.	1.....	50.00	36.00	56.47	46.55
34-in.	1.....	95.00	44.00	63.21	67.38
Hand flush gates:					
24-in.	1.....	85.00	93.00	40.18	36.75
18-in.	2 each	55.00	53.50	24.74	22.05
10-in.	3 "	26.00	32.50	20.09	13.88
Tide gate	1.....	55.00	48.00	64.31	40.43
Total		$853.00	$787.50	$647.52	$551.25

*Awarded contract.

The following lump bids were also submitted for sluice gates, tide gates and flush gates: P. F. Dundon, $897; E. M. Tucker & Co., San Francisco, $836; Risdon Iron & Locomotive Works, $700.

Valves.

Size and kind.		E. W. Tucker & Co., San Francisco.	*Ludlow Valve Mfg.Co., Troy, N.Y.
½-in. valves	..Brass bibb....54 each	$1.75	$0.74
¾-in. "	..Service .....54 "	1.00	1.20
"	..Automatic air. 2 "	55.00	12.80
6-in. "	..Creck ..... 2 "	45.00	15.35
6-in. "	..Gate ..... 2 "	28.00	15.00
2-in. "	..Hose ..... 8 "	8.00	5.50
"	..Aut'm'tic lever 2 "	55.00	14.20
Total		$578.50	$263.46

*Awarded contract.

CURB AND GUTTER.—Newport, Ky.—The following bids were received May 24, 1899, for furnishing a combined concrete curb and gutter; all of Cincinnati, O., except Peter Ader: (1) being for 4,000 lin. ft. of combined concrete curb and gutter; (2) for remodeling sewer catch basins: Van Sandt & Meeds, (1) 53 cts., (2) $14; B Nilhaus, (1) 52 cts., (2) 14; Chas. Kuhl Stone Co., (1) 68 cts., (2) $15; S. J. Osborn, Jr. & Co., (1) 53 cts., (2) $15; Peter Ader, Newport, Ky., (1) 50 cts., (2) $15, accepted.

ROAD ROLLERS.—New York, N. Y.—The following bids were received by the Department of Highways, May 25, 1899, for furnishing 3 10-ton steam road rollers; Julian Scholl & Co., 136 Liberty St., New York, $1,800 each; Buffalo Pitts Co., 150 Nassau St., New York, $2,245 each; De Witt C. Bonker, Jr., Wall St., New York, $2,250 each; Harrisburg Foundry Machine Works, Harrisburg, Pa., $2,650 each.

DREDGING PLANT.—Buffalo, N. Y.—Maj. T. W. Symons, U. S. Engr., informs us that the following bids were received May 20, 1899, for the hire of a dredging plant, as advertised in Engineering News: (1) being for time of drill boats a day of 8 hours; (2) for hire of dredges a day for 8 hours; (3) average for drill boat; (4) average for dredges: L. P. & J. A. Smith Co., Cleveland, O., (1) $97 and $70; (2) $90, $150, $100 and $90; (3) $83.50; (4) $107.50. Buffalo Dredging Co., Buffalo, (1) $82 and $86; (2) 890, 865, $85 and $88; (3) $84; (4) $82. Kingston & Woods, Buffalo, (1) $80; (2) $76; (3) $80; (4) $76. The contract was let to Hingston & Woods.

ASPHALT PAVING.— Saginaw, Mich.—The Barber Asphalt Paving Co., New York, is reported to have been awarded the contract at $1.52 a yd. for asphalt paving; total, $53,000.

BRICK PAVING.—Erie, Pa.—The contract for brick paving in Holland St. from 8th to 13th St. has been let to Kraft & Walther for Park fire clay wire cut brick at $1.73 a sq. yd., complete, including foundations. They bid $25 for catch basins, $1.50 for landmarks or flush spill protected, 35 cts. for 6-in. drain pipe and 45 cts. a ft. for 9-in. pipe. Other bids were as follows: John McCormick & Son, $1.74 for Mack brick; $1.77 for Park; $1.83 for Canton red granite and $1.82 for Johnsonburg brick. Mayer Bros., $1.92 for Advance fire clay; $1.94 for Park; $1.94 for Canton shale, wire cut; and $1.99 for Canton repressed imperial brick.

BRICK PAVING.—Glens Falls, N. Y.—Geo. P. Slade, Cy. Engr., writes us that the following bids were received May 22, 1899, for brick paving, as advertised in Engineering News: (1) being for Mack block or brick; (2) for Eastern Pressed Co.'s brick; (3) for Eastern Pressed Co.'s Portland cement; (4) for New York paving brick; (5) for Park fire clay and Rosedale cement; (6) for Mack hydraulic brick or block; (7) for McMahon and Porter Portland cement; (8) McMahon and Porter hydraulic cement; (9) Park block Portland cement; (10) Park block wire cut and Portland cement; (11) Park fire clay, Portland cement; (12) Mack wire cut, Portland cement: H. Dumary, Albany, N.Y.,(1) $2.03 a yd.; (2) $1.65; (3) $1.71; A. M. Barker, Gloversville, (2) $1.65; (4) $1.65; (5) $1.75; J. Toomey, Schenectady, (1) $1.95; (2) $1.75; (3) $1.80; (6) $1.90; Troy Public Works Co., Utica, N. Y., (1) $2.01 for brick, and $2.07 for block; (2) $1.79; (3) $1.83; (5, 6 and 7) $2.03; (8) $1.99; (9) $2.07; (10) $1.95; Callanan Road Improvement Co., Albany, N. Y., (1) $1.84; (3) $1.89; (9) $1.84; (10) $1.76; (11) $1.89; (12) $1.76; W. D. Dodge, Buffalo, N. Y., (1) $1.96; (2) $1.72; (3) $1.72; (6) $1.96; Frank Pidgeon, Saugerties, N. Y., (1) $2.17; (2) $1.89; (3) $1.92; (5 and 6) $2.14; (11) $2.17; Herrington & Besch, Troy, N. Y., (1) $1.97 for brick; $2.05 for block; (2 and 3) $1.81; (9) $2.05. The contract has been let to the Callanan Improvement Co. for about 6,300 sq. yds. of Mack block on Warren St. at $1.84 a yd. Portland cement is to be used. The contract includes a 6-in. concrete foundation. The village will do its own excavating. W. D. Dodge has the contract for paving 3 streets with Eastern Paving Brick Co.'s brick at $1.72, Portland cement to be used.

WATER METERS.—Newark, N. J.—Local papers state that the following bids were received May 18, 1899, for furnishing 2,546, of which 2,400 were ⅝-in. meters, the rest being for ten ¾-in. meters, 100 1-in., ten 1½-in., twenty 2-in., three 3-in., and three 4-in. meters. The prices were for the varying sizes, $8, $12, $16, $30, $50, $85 and $190 respectively. The bidders were the National Meter Co., of New York, making the "Nash" meter; the Thomson Meter Co., of Brooklyn, manufacturers of the "Lambert" meter; the Neptune Meter Co., of New York, makers of the "Trident" meter, and the Hersey Mfg. Co., makers of the "Hersey Disc" meter.

PUBLIC LIGHTING.—New York, N. Y.—Commissioner Kearney, of the Department of Public Buildings, Lighting and Supplies, received bids May 22, 1899, for lighting the streets and public buildings for the following year. There were 34 bids. Of these six were from electric light companies. In Brooklyn there were bids from one electric

BIDS RECEIVED AT HONOLULU, H. I., APRIL 20, 1899, FOR SEWER WORK AND MATERIALS.

Portland Cement.

Bidder.	Delivery. On June 15. Barrels. No.	Rate.	On June 1. Barrels. No.	Rate.	On July 1. Barrels. No.	Rate.	On Aug. 1. Barrels. No.	Rate.	On Sept. 1. Barrels. No.	Rate.	After Oct.1. Barrels. No.	Rate.	Total; for deliveries, Gross.	Sev'r'l.
[1]H. Hackfeld & Co., Ltd.	6,500	$4.00	1,800	$4.10	1,800	$3.90	1,400	$3.75	500	$3.75	1,000	$4.00	$26,000	$25,525
Lewers & Cook	6,500	3.85	1,800	3.85	1,800	3.85	1,400	3.85	500	3.85	1,000	3.85	25,025	25,025
[2]Wilson & Whitehouse	...	....	1,800	3.69	1,300	3.69	500	3.79	...	....	2,900	3.69	.....	24,035
[3]P.F.Dundon,San Francisco	...	....	1,800	3.65	1,800	3.65	1,400	3.65	500	3.65	1,000	3.65	.....	23,725
[1]H. Hackfeld & Co., Ltd.	1,500	3.35	3,000	3.35	3,000	....	2,000	3.35	...	....	...	....	.....	21,775
[3]Grace & Co.,San Francisco	...	....	1,800	3.35	1,800	3.25	1,400	3.25	500	3.25	1,000	3.20	.....	21,255

All bidders of Honolulu, except when otherwise stated. Brand of Cement: [1]White Bros.; [2]Gillingham; [3]first two and last bid for Josson, other two bids for Eiffel Tower. W. R. Grace & Co. also bid $3.00 a bbl. for 1,800 bbls. of cement to be delivered July 1, and $3.00 for 600 bbls. to be delivered after Oct. 1 (Rooster brand). Bids call for 6,500 bbls. of cement to be delivered in one or several installments. W. R. Grace & Co. received the award.

Sewer Pipe.

Quantities.	Wilson & Whitehouse, Honolulu,H.I. Length.	Rate.	Blackmer & Post, St. Louis, Mo. Length.	Rate.	Gladding & McBean, SanFrancisco, Cal. Length.	Rate.	Hawaiian Trading Co., Honolulu, H. I. L'gth.	Rate.	Lewers & Cook, Honolulu, H. I.	Gladding & McBean, San Francisco, Cal.	Oakland (Cal.) Art Pottery Co.
6-in. straight ...30,000 lin. ft..	$0.22½	2 ft.	$0.21	2 ft.	$0.17	4 ft.	$0.20	$0.18	$0.17	$0.15	
6-in. ⅛-in. bends 4,480 pieces..	1.02	"	.62½	"	.50	2 ft.	.50	.55	.50	.50	
6-in. slants .... 200 "	....	"	.38	....	.50	....	....	....	.50	....	
8-in. straight ...33,000 lin. ft..	.30	2½ ft.	.32	2½ ft.	.275	4 ft.	.30	.23	.225	.20	
8-in. 6-in. brnchs 3,120 pieces..	1.63⅛	2 ft.	.83¼	2 ft.	.85	2 ft.	1.00	.90	.85	.40	
10-in. straight .... 2,400 lin. ft..	.45	2½ ft.	.43	2½ ft.	.41	4 ft.	.40	.38	.36	.30	
10-in. 6-in. brnchs 220 pieces..	2.44½	2 ft.	1.55	2 ft.	1.40	2 ft.	1.20	1.45	1.40	.60	
12-in. straight .... 1,500 lin. ft..	.66	2½ ft.	.55	2½ ft.	.525	4 ft.	.50	.50	.45	.375	
12-in. 6-in. brnchs 154 pieces..	3.06	2 ft.	1.45	2 ft.	1.80	2 ft.	1.50	1.85	1.80	.75	
14 & 15-in. straight 1,900 lin. ft..	.80	2½ ft.	.75	2½ ft.	.675	4 ft.	.60	.65	.60	.60	
6-in. brnchs. .. 177 pieces..	4.08	"	2.35	2 ft.	2.40	2 ft.	2.00	2.45	2.40	1.20	
18-in. straight .... 4,800 lin. ft..	1.44	"	1.24	2½ ft.	1.32	4 ft.	1.20	1.20	1.12	...	
18-in. 6-in. brnchs 452 pieces..	6.12	"	3.85	2 ft.	4.50	2 ft.	3.60	4.75	4.50	...	
20-in. straight .... 450 lin. ft..	1.87¼	"	1.60	2½ ft.	1.51	4 ft.	1.30	1.40	1.31	...	
20-in. 6-in. brnchs 18 pieces..	7.14	"	5.15	2 ft.	5.25	2 ft.	4.20	5.50	5.25	...	
22-in. straight .... 200 lin. ft..	2.26⅛	"	1.98	2½ ft.	1.77	4 ft.	1.50	1.65	1.57	...	
22-in. 6-in. brnchs 27 pieces..	8.56⅜	"	6.30	2 ft.	6.30	2 ft.	5.00	6.50	6.30	...	
24-in. straight .... 6,000 lin. ft..	2.67½	"	2.42	2½ ft.	2.12	4 ft.	1.75	2.00	1.87	...	
24-in. 6-in. brnchs 124 pieces..	10.20	"	7.70	2 ft.	7.50	2 ft.	6.00	8.00	7.50	...	
Total	$60,596.45		$51,245.75		$46,672.40		$44,790.80	$44,441.55	$42,039.40	.....	

*Contract awarded to Gladding, McBean & Co., for 2½ ft. lengths of straight pipe. Where no length of pipe is given, the bids is for 2-ft. lengths. The Hawaiian Trading Co.'s bids are for asphaltum pipe.

DREDGING, ETC.—Portchester Harbor, N. Y.—The following bids were received by Maj. H. M. Adams, U. S. Engr., Army Bldg., New York, May 17, 1899, for dredging and rock excavations in Portchester Harbor, as advertised in Engineering News:

Bidder.	Dredging, 78,000 cu. yds.	Rock excavation, 650 cu. yds.	Total.
DuBois Dredging Co., New York	$0.21	$11.00	$23,530
Hartford (Conn.) Dredging Co...	.21	11.60	23,920
International Con. Co., Syracuse	.195	9.50	21,385
Chas. W. Johnston, Lewes, Del.	.49	15.00	47,970

ROCK EXCAVATING.—Oswego, N. Y.—Capt. Graham D. Fitch, U. S. Engr., Oswego, N. Y., informs us that the following bids were received May 22, 1899, for 2,370 yds. of rock excavation in the St. Lawrence River, near Ogdensburg: Geo. A. Rogers, Plattsburg, N. Y., $9.49 a sq. yd.; Wm. J. Daly, Ogdensburg, N. Y., $7.

ARTESIAN WELLS.—Doylestown, Pa.—It is stated that Wm. B. Sutton, of Doylestown, has been awarded the contract for sinking two 8-in. artesian wells 100 ft. deep or less at $1.40 a ft., for the next 50 ft., $1.65, and $1.90 a ft. for the next 50 ft.

LEVEE WORK.—New Orleans, La.—The United States engineer received the following bids May 24, 1899, for building Cofield Levee: C. D. Leeper,14.74 cts. a cu.yd.; R. Nicholson, 15.74 cts.; I. R. Bobbitt, 14.88 cts.; Dameron & White, 13.72 cts.; E. B. Helgason, 19 cts.; Clark & Reagan, 13.43 cts..

SEWER WORK.—Bridgeport, Conn.—Local papers state the following bids were received May 5, 1899, for constructing brick sewers: Norman St., 30-in. brick sewer, B. D. Pierce, Jr., Co., a ft., $3; rock excavation, a yd., $3.50; P. H. Harrison & Sons, New York, $3.80; rock, $3; Pierce Mfg. Co., $3.08; rock, $2.65; Geo. P. Stucker, Harrisburg, Pa., $3.93; rock, $3.65; Frank Pidgeon, New York, $5.30; rock, $3.25; Jas. J. Newman, Providence, $5.20; rock, $3.50; Thos. F Maher, New Haven, $3.45; rock, $3; Chas. B. Boothway, Syracuse, N. Y., $3.20; rock, $3.75; John A. Doolittle, New Haven, $3.95; rock, $2; Thos. E. Collins, $4.49. The bids for rock excavation apply to the bids upon all the sewers except in the case of Doolittle, of New Haven. Boothway, of Syracuse, offered a reduction of 10% in consideration of receiving all of the work. Olive St. calls for 40-in. brick sewer: B. D. Pierce, Jr., Co., $4; Harrison & Sons, $3.80; Pierce Mfg. Co., $3.97; Stucker, $4.87; Pidgeon, $6.20; Newman, $5.45; Maher, $4.50; Boothway, $4.40; Doolittle, $4.48. Stratford Ave., trunk sewer, brick, 30 x 45, B. D. Pierce, Jr. Co., $4.40; Harrison & Sons, $5; Pierce Mfg. Co., $4.23; Stucker, $4.56; Pidgeon, $6.70; Newman, $4.85; Maher, $3.90; Boothway, $4.25; Doolittle, $4.50; Collins, $5.49.

IMPROVING RIVERS.—Chicago, Ill.—Maj. W. L. Marshall, U. S. Engr., informs us that the following bids were received May 25, 1899, for 250,000 cu. yds. of dredging in the Calumet River, as advertised in Engineering News:

Bidder.	Dredging, a cu.yd.	Total.
Samuel O. Dixon, Milwaukee, Wis.	$0.21½	$53,750
Hausler & Lutz Twg & D'k Co.,S.Chicago	.17	42,500
Lydon & Drews Co., Chicago	.16¾	41,875
Carkin, Stickney & Cram, Detroit	.18½	46,250
Fitzsimons & Cornell Co., Chicago	.16	40,000
Green's Dredging Co., Chicago	.20¾	51,875

company and three gas companies. In the Bronx bids came from three electric light companies and four gas companies. Queens bids were received from one electric light company and six gas companies, and in Richmond one electric and two gas bids were received. The bids for electric lighting in Manhattan were practically unchanged from last year. There did not appear to be any decided competition, the Brush and Edison companies quoting 40 ... a lamp a night. The Consolidated Gas Co. bid $11 per lamp for street lighting and 50 cts. a thousand feet for gas in public buildings. The New Amsterdam Gas Co. bid $12 and 45 cts. respectively. The Standard company bid $12.90 a lamp, but made no bid for public building lighting. In the Bronx the North River Electric Co. bid 45 cts. a night for street lamps, and the Pelham company 30 cts., and the Bronx Gas & Electric Co. 35 cts. For gas lighting the bids for street lights ranged from $24 to $30 a lamp for a year. The Central Union and the Northern Union Gas companies will charge 95 cts. per 1,000 ft. for gas in public buildings until Jan. 1. Then the price will be 92½ cts. The bids for lighting the streets and public buildings of the Borough of Brooklyn showed no change from last year. It will cost 34 cts. a night for every electric light furnished by the Edison company.

WATER PIPE.—Hanford, Cal.—It is stated that Robinson & Rawlins have been awarded the contract for furnishing 1,500 ft. of 6-in. cast-iron water pipe at 53½ cts. a ft.

ENGINEERING MATERIAL PRICES.

TRACK MATERIALS—
New York—Angle bars, 1.40 cts. to 1.45 cts.; spikes, 1.70 cts. to 1.80 cts.; track bolts, 2.10 cts. to 2.20 cts.
Chicago—Angle bars, 1.40 cts. to 1.50 cts.; spikes, 1.85 cts. to 1.90 cts.; track bolts, hexagonal, 2.65 cts. to 2.75 cts.; square, 2.55 cts. to 2.65 cts.

RAILS, STEEL—
New York, new, $25.00.
Chicago, new, $26.00 to $28.00; old iron, $18.50 to $19.00; steel, $12.00 to $12.50.
Pittsburg, new, $25.00; old iron, $17.00 to $17.50; old steel, $12.50 to $13.50.

STRUCTURAL STEEL—
New York—Beams, 1.63 cts. to 1.75 cts.; channels, 1.63 cts. to 1.75 cts.; tees, 1.70 cts. to 1.75 cts.; angles, 1.63 cts. to 1.70 cts.; rivets, 1.85 cts. to 1.90 cts.
Chicago—Beams, 1.65 cts. to 1.85 cts.; channels, 1.65 cts. to 1.85 cts.; tees, 1.70 cts. to 1.75 cts.; angles, 1.65 cts. to 1.80 cts.
Pittsburg—Beams, 1.50 cts. to 1.60 cts.; channels, 1.50 cts. to 1.60 cts.; tees, 1.55 cts.; angles, 1.50 cts. to 2.00 cts.; zees, 1.50 cts.

PLATES AND SHEETS—
New York—Universal mill plates, 2.00 to 2.15 cts.; tank, 2.30 cts. to 2.35 cts.; shell, 2.40 cts. to 2.45 cts.; flange, 2.55 cts. to 2.60 cts.; firebox, 2.70 cts. to 2.75 cts.
Chicago—Universal mill plates, 2.15 cts. to 2.20 cts.; tank, 2.25 cts. to 2.40 cts.; shell, 2.40 cts. to 2.55 cts.; flange, 2.50 cts. to 2.60 cts.; firebox, 2.75 cts. to 4.00 cts.; sheets, 3.15 cts. and upwards.
Pittsburg—Universal mill plate, 2.10 cts.; tank, 2.10 cts. shell, 2.20 cts.; flange, 2.30 cts. to 2.50 cts.; firebox, 2.75 cts. to 3.25 cts.; sheets, 2.80 cts. to 3.00 cts.

MERCHANT STEEL—
Machinery per lb., 2.45 cts. to 2.55 cts.

IRON—
Pig iron:
New York—No. 1, $15.75 to $16.25; No. 2, $15.25 to $15.75.
Chicago—No. 1, $16.00 to $16.50; No. 2, $15.50 to $16.00.
Pittsburg—No. 1, $16.75; No. 2, $16.00.
Bar iron:
New York, common, 1.40 cts. to 1.50 cts.; refined, 1.50 cts. to 1.60 cts.
Sheets:
Common, American, per lb., 2.42 cts. to 3.20 cts.

LUMBER—
New York:
Hemlock timber, 20 ft. and under, per M, $13.00.
Piling, Eastern spruce, 35 to 40 ft., 30 to 40% 12-in. butts, 4.00 cts.
Spruce, special cargoes, per M, $15.00 to $18.00.
Yellow pine, random cargoes, $18.00 to $20.00.
North Carolina pine, $2.25 to $2.40 advance over Norfolk rates.
San Francisco:
Oregon pine, per M, $15.50 to $17.50.
Redwood, per M, $18.20 to $20.00.
Redwood tank stock, up to 10 ft., $24.00 to $25.00.

GENERAL MATERIALS—
Lead, New York, 4.32 cts. to 4.35 cts.
Solder, per lb., 14½ cts. to 15 cts.
Spelter, per lb., 6.75 cts. to 7.00 cts.
Copper ingots, 19.25 cts.
Granite, rough, New York, cu. ft., 40 cts. to 50 cts.
Limestone, New York, cu. ft., 65 cts. to 90 cts.
Ohio freestone, New York, cu. ft., 85 cts. to 90 cts.
Slate, No. 1, Bangor, per square, $4.25 to $5.25.
White lead, American, per lb., 5¾ cts. to 6 cts.
Lime, common state, per bbl., 75 cts.

INDUSTRIAL NOTES.

THE AMERICAN CLAY WORKING CO., Bucyrus, O., has shipped to Christiania, Norway, some brick making machinery, according to reports.

THE NORTHERN ELECTRICAL CO., Madison, Wis., it is stated, has shipped 30 dynamos and motors of about 10-HP. each to St. Petersburg, Russia.

THE IRONCLAD RESISTANCE CO., Garwood, N. J., is shipping considerable of its electrical apparatus to London, England, according to reports.

THE FITCHBURG STEAM ENGINE CO., Fitchburg, Mass., will soon ship a 100-HP. vertical engine to the Government paper mills at Oji, Japan.

THE OIL CITY TUBE CO., Oil City, Pa., is said to have shipped about 25 carloads of wrought iron pipe to Johannesburg and Cape Town, South Africa.

THE PERKINS ELECTRIC SWITCH CO., Hartford, Conn., is reported to have shipped a considerable amount of electric apparatus to Hubert & Co., Steyr, Austria.

THE BUFFALO FORGE CO., Buffalo, N. Y., will soon have ready for shipment two large ventilating plants to be sent to mines near Johannesburg, South Africa, according to reports.

J. H. WILLIAMS & CO., Brooklyn, N. Y., have just placed on the market a pipe wrench which they claim to be the largest and most powerful ever made. It will handle pipe 4 ins. to 18 ins. diameter and has levers over 7 ft. in length. Its total weight is 130 lbs. The chain used in the wrench has an ultimated strength of 40,000 lbs.

THE UNION SWITCH & SIGNAL CO., Swissvale, Pa., is reported to have received an order from the Pennsylvania R. R. Co. for $100,000 worth of signal equipment for the New York division.

THE AMERICAN CAR & FOUNDRY CO., is reported to have received orders from the New York, New Haven & Hartford R. R. Co. for 250 cars and from the Southern Ry. Co. for 600 box and flat cars, and a number of passenger cars.

THE CHAMBERSBURG ENGINEERING CO., Chambersburg, Pa., W. H. Derbyshire, President, is reported by local papers to have received orders for one 5-ton double hammer for the Duquesne Forge Co., and one 800-lb. single frame hammer for the Pennsylvania R. R. Co.'s shops at Pa.

THE REESE-HAMMOND FIRE BRICK CO., Bolivar, Pa., is made the subject of an extended descriptive article in the Greensburg, Pa., "Press" of May 25. This company is the second largest producer of fire brick in the United States, and is also a large producer of paving and building brick. It is now experimenting in the production of enameled brick and tiling.

THE MICHIGAN BRASS & IRON WORKS, Detroit, Mich., has opened an office at 97 Queen Victoria St., London, England, in charge of Mr. Frederic Neil. The company is just completing two 40-in. flanged-ends valves for the Louisville Water-Works, Louisville, Ky., built to withstand a pressure test of 300 lbs. per sq. in. It is also supplying all hydrants to be used in the same city during the present year. The works are running full time in all departments and the force has been increased considerably.

ROSENCRANZ & MOTT, 1336 Marquette Bldg., Chicago, Consulting Engineers, have been awarded the contract for making the detailed drawings for the new Siegel & Cooper Bldg., corner State and Madison St., Chicago, which will use over 2,000 tons of steel in its construction. They have also been awarded the contract for making the shop drawings for the Butler warehouse, to be located on West Water St., Chicago, including about 1,000 tons, and several smaller contracts.

THE NATIONAL EQUIPMENT CO. has been incorporated in California with a capital stock of $10,000,000. The incorporators say that the main purpose of the company is to obtain control of patents, now in possession of a local corporation, for preventing the flattening of car wheels and for regulating the pressure of air brakes. The company is incorporated by John Dolber, Henry F. Allen, John A. Hooper, Rudolph Spreckles, Richard W. Gorrell, Jos. H. Thompson and W. H. Chickering, all of San Francisco, Cal.

THE LUDLOW VALVE MFG. CO., of Troy, N. Y., has recently made and shipped to the Indiana gas fields some 10-in. gate valves, tested to 2,000 lbs. per sq. in. The valves are of ordinary design, except that they are heavier, and have the iron "stuffed" to diminish its porosity. The company has recently secured the contract for 24, 36 and 48-in. valves for the Staines reservoir works, designed to furnish storage for two of the water companies supplying London, England. Orders from Odessa and Moscow have also been secured.

THE PNEUMATIC SUPPLY & EQUIPMENT CO., 120 Liberty St., N. Y., recently organized, has secured an order from the Tubular Despatch Co., owning and operating the Pneumatic Mail Transmission Tubes in New York city, for three duplex Corliss air compressors. These three compressors are to be located in the sub-basement of the Metropolitan Life Insurance Building, New York city. The capacity of each compressor is in excess of 1,300 cu. ft. of free air per minute, and the entire cost of the installation is understood to be over $12,000.

THE NEW YORK BLOWER CO., 39-41 Cortlandt St., New York, announces that it is equipping its shops at Louisville, O., with modern machinery. The work will be under the personal supervision of Mr. Walter G. Holmes, Gen. Mgr. New York Blower Co., and formerly Superintendent of the Boston Blower Co., which has recently changed hands. The New York offices will be in charge of Mr. De Witt T. Lyon, Gen. Mgr., and formerly New York Manager of the Boston company. R. C. Penfield, of J. W. Penfield & Son, Willoughly, O., is President of the New York Blower Co.

BORTON & TIERNEY, Stephen Girard Building, Philadelphia, have been awarded the contract for all the pneumatic tools for the League Island navy yard, Philadelphia, and for the Neafie & Levy Ship & Engine Building Co., which has recently introduced compressed air as part of its shop equipment. Other orders recently received by Borton & Tierney are from the Pennsylvania Steel Co., Steelton, Pa.; Phoenix Iron Works, Phoenixville, Pa., and Pusey & Jones Co., Wilmington, Del., for a large number of tools. All of the above tools are those manufactured by the Chicago Pneumatic Tool Co.

THE BERLIN IRON BRIDGE CO., East Berlin, Conn., has secured the contract from the Rome Brass & Copper Co., Rome, N. Y., for the steel buildings for a large brass plant. The contract comprises a boiler house and an engine house 40 ft. wide and 120 ft. long; a casting shop 50 ft. wide and 90 ft. long; and a tube mill 120 ft. wide and 200 ft. long. The framework of all these buildings is steel. The roofs have a flat pitch covered with tar and gravel, and the sides are arranged with a quantity of glass supported on steel framework. The building is modern in arrangement and construction, and absolutely fireproof.

THE PENNSYLVANIA STEEL CO., Steelton, Pa., has a contract for a viaduct for the Burmah Ry., in India. Press reports state that the viaduct will be 2,260 ft. long, 320 ft. high, and span the Gokteik gorge, 80 miles west of Mandalay. Steel towers will be erected at intervals of 125 ft., and 5,000 tons of steel will be required to complete the work. Half of the material is to be shipped in August, and work commenced at the close of the rainy season in November. The company will send its own men to do the erecting. The total cost will be $700,000, and work on the material has already begun at Steelton.

THE PRESSED-STEEL CAR CO., Pittsburg, Pa., and Joliet, Ill., has arranged to have a comprehensive exhibit of its styles of cars at the Old Point Comfort convention, June 14 to 23. Not only will its types be shown in new cars, but a complete series of cars manufactured early in the history of the company and since then in use by prominent railways will be exhibited. The cars will be sent to Old Point Comfort, Va., in exactly the condition in which they are received from the railway companies, in order that there may be, for the benefit of railroad men, an ocular demonstration as to how the cars wear in service. Of the old cars to be on view, the Pensylvania Co. will contribute one; the Baltimore & Ohio R. R. one; the Pittsburg, Bessemer & Lake Erie R. R., one self-clearing hopper; and the Lake Superior & Ishpeming R. R. a specially signed ore car.

THE FULLER CO., Detroit, Mich., manufacturer of air propellers and electrical and ventilating apparatus, has orders to build all the blowers for forced draft and ventilation for an iron armored cruiser and for a battleship which are being built by the Cramps Shipbuilding Co., Philadelphia, for the Imperial Russian government. The company also has orders for a large belt-driven blower to be used in connection with the Howden forced draft system on a freight steamer being built for the Western Transit Co., Buffalo, N. Y., by the Union ... Dock Co., of the same city, and for four 60-in. air propellers for Wm. Key, ventilating engineer, Glasgow, Scotland. The Fuller Co. has just shipped eight air propellers direct connected to electric dynamos to E. H. Cadiot & Co., Paris, France, and also a carload last week consisting of 13 air propellers, electrically driven, to the Longue Pointe Insane Asylum, Montreal, Que. The company reports a very good business and is working full time in all departments.

THE BULLOCK ELECTRIC MANUFACTURING CO., Cincinnati, will ship to England at once one 25-HP. generator and two 30-HP., one 40-HP., and two 50-HP. printing press equipments for the Manchester "Sporting Chronicle." One 25-HP. type O printing press motor, with controller, will go to Cassell & Co., London, the well-known publishing house. A slow speed motor for direct connection to lithograph press, with controller, will be forwarded to the Belfast "Evening News," which will also take a 30-HP. printing press equipment, with teaser and controller. Two 50-HP. motors, with teasers and controllers, will be dispatched to the London "Daily News." The above teaser equipments are intended to drive large newspaper presses. Other English orders, which will be executed next week, include a small motor for the Machinery Trust, Limited, of Chester; two 40-HP. slow speed generators for the Thornycroft shipbuilding yards; one slow speed motor of 5-HP. to be supplied to Richard Moreland & Co., of London, and one 4-HP. motor for Chas. Churchill & Co., of Birmingham. These orders are worth about $20,000. Smaller shipments are stated to have been made this month to numerous other foreign countries.

THE PHOENIX BRIDGE CO., Phoenixville, Pa., is reported to have been awarded the contract for furnishing the steel frames for about 20 vessels for the United States Navy, most of them being torpedo boats and torpedo boat destroyers. The company is at work on steel work for the battleships "Kearsarge" and "Kentucky" being built by the Newport News Shipbuilding Co. The beams and angles for these ships are among the largest ever made in this country and the most powerful machinery is required to handle them. In order to better facilitate the work contracted for, the Government has established a permanent engineering department here, which is in charge of Lieut. M. W. Watkins, U. S. N. The torpedo boat destroyers whose frames have been contracted for by the Phoenix Bridge Co. are as follows: "Bainbridge," speed 28 knots; "Barry," 28 knots; "Chauncey," 28 knots; "Dale," 28; "Decatur," 28; "Hopkins," 29; "Hull," 29; "Lawrence," 30; "MacDonough," 30; "Paul Jones," 29; "Perry," 29; "Preble," 29; "Stewart," 29; "Truxtun," 30; "Whipple," 30; "Worden," 30. The torpedo boats are as follows: "Rowan," speed 26 knots; "Dahlgren," 30 knots; "T. A. M. Craven," 30; "Stringham," 30; "Goldsborough," 30; "Bailey," 30; "Bagley," 28; "Barney," 28; "Biddle," 28; "Blakely," 26; "De Long," 26; "Nicholson," 26; "O'Brien," 26; "Shubrick," 26; "Stockton," 26; "Thornton," 26; "Tingey," 26; "Wilkes," 26.05.

NEW COMPANIES.—Jersey City, N. J., Automatic Safety Railway Switch Co., $100,000; manufacture patent railway switches; Joseph C. McGrath, Ambrose Dailey, H. C. Nichols, H. B. Pierce, Frank McMahon, P. W. Boyer, Joseph L. Dailey.

Lime Spring & Bristol Telephone Co., Lime Spring, Ia.; $1,000; to construct a telephone line from Lime Spring to Bristol, Minn.; J. A. Williams, John W. Davis and John H. Jones.

National Engineering Co., 127 Market St., Camden, N. J.; $500,000; to carry on business of designers, engineers, etc.; M. A. T. Gillbee, 1019 South 47th St., Philadelphia; B. J. Woodward, 119 South 4th St., Philadelphia; Alexander Duer, 127 Market St., Camden, N. J.

Rice Beittenmiller Switch Co., 227 Market St., Camden, N. J., $50,000; to manufacture railway switches, etc.; Joseph S. Rice, 1150 Germantown Ave.; F. William Beittenmiller, 1152 Germantown Ave.; Edward Harshaw, 1001 Chestnut St., all of Philadelphia, Pa.

Buffalo Expanded Metal Co., Buffalo, N. Y.; $25,000; P. B. McNaughton, Big Tree; R. Forrestel, W. H. Kinch, C. E. Williams, F. L. Babst, W. H. Albro, all of Buffalo.

Lindstrom Brake Co., New York; $100,000; J. Wallace Van Gordon, Charles Kirwin, William L. McNamara and Bennett E. Duffy, of New York; William S. McClymont, Brooklyn, N. Y.

American Service Powder Co., New York; $1,000,000, commencing with $900,000; Henry G. Layng, John Rooney, Lewis J. Munson and Joseph M. Jones, New York, Thornton M. Hill, Pelham Manor, N. Y.

Watertown Spring Works, Watertown, N. Y., $5,000; manufacturing springs for locomotives, etc.; Edith E. Penn, E. Eaton, Claude Lewis, Watertown; J. Bondy, Syracuse.

New Bremen Telephone Co., New Bremen, O.; $6,000; Messrs. Ed. and Theo. Purpus, Adolph Boesel, Jacob Fritz and A. C., Buss.

Salisbury Telephone Co.; Salisbury, N. C.; $10,000; S. H. Wiley, J. A. Helvin and L. L. Gaskill.

Mutual Telephone Co., Winston, N. C.; $3,000; S. B. Owens, J. F. Miller, W. A. Lemly, A. M. Rogers.

Gruson Iron Works, New York; $500,000; to manufacture and sell chilled iron armor gun carriages, cast-iron turrets, and casemates; Thomas Prosser, Ernst Thalman, and Herbert L. Satterlee, New York; P. H. Griffin, T. Guilford Smith, Buffalo; C. W. Barnum, Lime Rock, Conn.; A. L. Piorkowski, Magdeburg, Germany; D. Townsend, Philadelphia; S. Singer, Paris, France.

Automatic Railway Co., Charleston, W. Va.; $10,000; to manufacture, erect and maintain automatic railway gates in the United States and Canada; Thomas H. Ballick, Harry B. Day, John F. B. Hawthorne, Brady Grier and David C. Breckinridge, all of New York.

Peninsular Telephone Co., Jackson, Mich.; $20,000, commencing with $5,000; V. B. Osborn, Charlotte; C. K. Perrine and E. M. Perrine, Jackson; and W. C. Osborn, Charlotte, Mich.

Binghamton Telephone Co., Binghamton, N. Y.; $100,000; to operate in Broome, Tioga, Chenango and Delaware counties; Thomas B. Crary, G. C. Bayless, A. G. Wales, W. E. Carpenter, C. F. Terhune, C. F. O'Brien and W. W. Newell, of Binghamton.

Pattenburg Portland Cement Co., Clinton, N. J.; $500,000; Isaac S. Mettler, Clinton, N. J.; Hiram C. Bennett and Edwin H. Bennett, 56 Wall St., New York; Elmer E. Tomson and Chester Tomson, Clinton, N. J.

Green River Asphalt Co., St. Louis, Mo.; $16,000; G. G. Sutherland, M. W. Sutherland and W. H. Clopton.

Acme Telephone Co., West Union, O.; $10,000; S. S. Crawford, T. W. Ellison, M. K. Coleman, Charles E. Campbell and F. R. Hillhouse.

Cox Electric Rail Co., New York; $1,000,000; H. Barringer Cox, David Jankower, both of New York; William Earl Hidden, William R. Weeks, Oscar C. Kinye, all of Newark, N. J.

Simpson Coal & Coke Co., Kingwood, W. Va.; $40,000; coal lands, coal and coke; Edward Corder, D. S. Gutherre, L. L. Saunders, E. M. Keatley, all of Charleston, W. Va.; John Sliney, Kingwood.

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